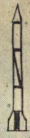


At your Service... All Over the World!

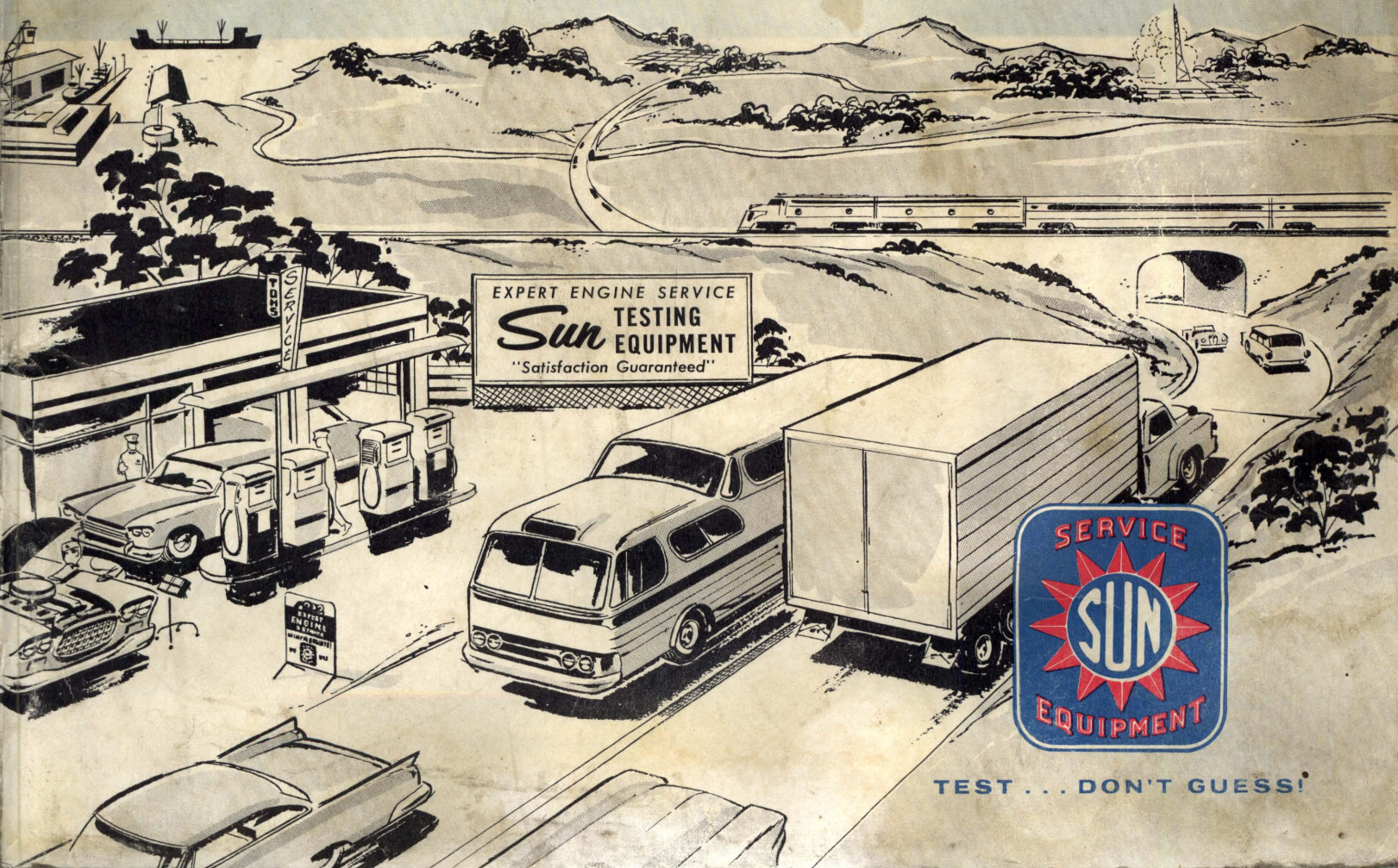


Sun



**AUTOMOTIVE
TEST AND SERVICE
EQUIPMENT
CATALOG**

SUN ELECTRIC CORP.
7301 Garfield Blvd.
Cleveland 26, Ohio
Phone: 883-9079



TEST... DON'T GUESS!



SCIENTIFIC TESTING

the key to successful, profitable automotive service . . .

● SELLS MORE SERVICE

● LOCATES TROUBLE QUICKLY

● ASSURES QUALITY SERVICE

● GUARANTEES SATISFACTION

Satisfactory performance, economical operation, and dependability, are what every car owner desires most regarding the operation of his vehicle. The Automotive Service Industry, therefore, is obligated to offer and perform all of the services necessary to either insure or restore this performance, economy, and dependability.

It is only logical, that before a service man can begin to perform corrective and maintenance services, he must have at his disposal factual knowledge as to the vehicle's actual service requirements. As *performance, economical operation and dependability* of a vehicle's power plant depend upon the condition and efficient operation of the Engine, Fuel System, Ignition System, Starting, and Charging Systems, any service man would be attempting to perform his work blindfolded unless he first obtains the facts as to the condition and operating efficiency of the components involved. The quickest and most reliable method of obtaining the facts necessary for the service man to determine the proper service operations required on any particular vehicle, is through the medium of scientific test and service equipment. In every phase of your service operation where the facilities of accurate and dependable test and service equipment are utilized; efficiency and profits will soar.



● SELLS MORE SERVICE

Efficient service merchandising is a *must* in any operation. Test and service equipment becomes a valuable tool which assists you in determining which of your customer's vehicles actually require the services you offer. Practically all misdirected sales effort can be eliminated.

● LOCATES TROUBLE QUICKLY

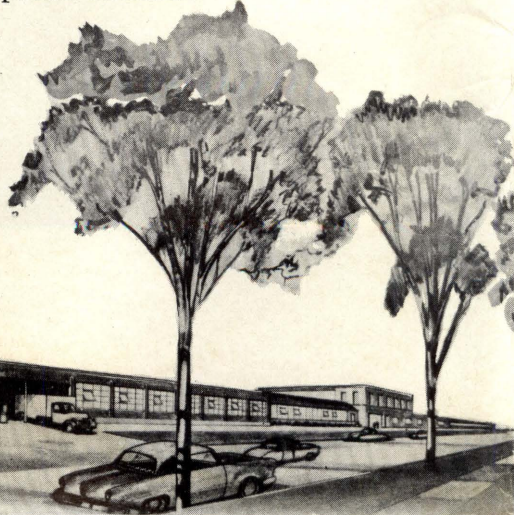
Each time your service personnel is confronted with a vehicle on which a customer has registered a specific performance complaint, they must know the true cause of the difficulty before determining what service must be provided to correct the malfunction. The use of accurate, dependable test equipment provides the quickest and surest means of finding out "*what*" is wrong with the power plant's operation, and exactly "*where*" the fault lies.

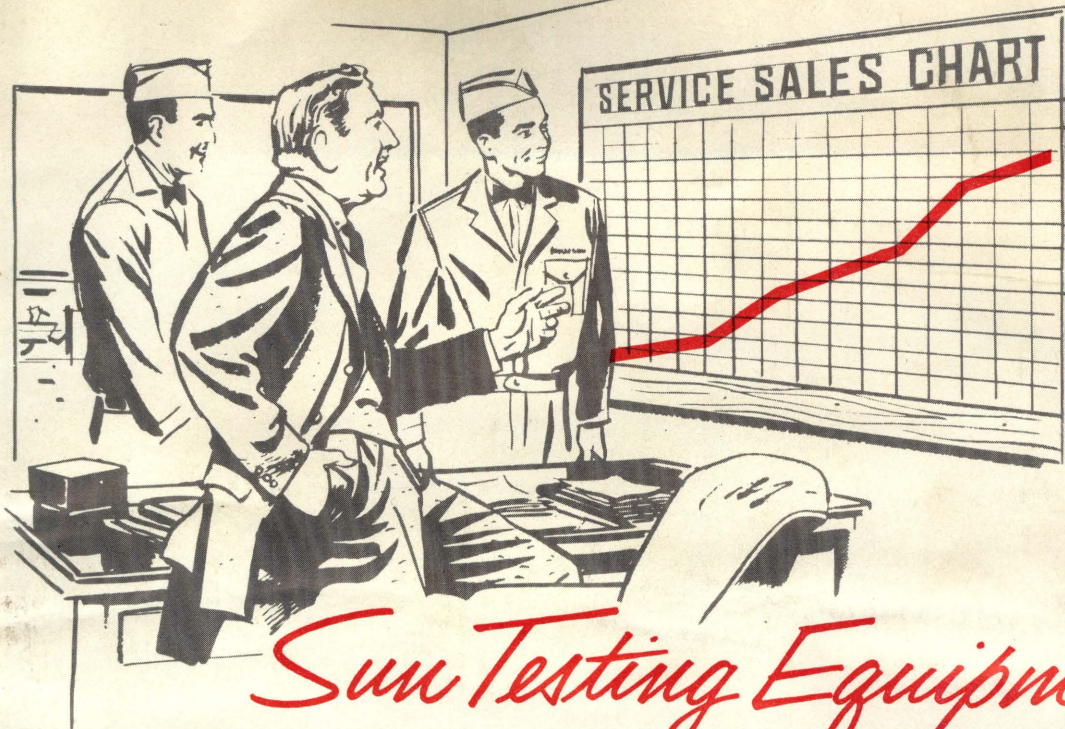
● ASSURES QUALITY SERVICE

Most services necessary on today's high powered vehicles require very careful and precise adjustments to restore many critical factors to manufacturer's specifications. Here again, dependable test and service equipment provides the facilities necessary for the service man to actually make these adjustments accurately, conveniently, and in the shortest period of time.

● GUARANTEES SATISFACTION

By incorporating the use of test equipment in every one of your service operations, work of the highest quality is assured, thereby, providing the "SATISFACTION GUARANTEED" type of service that the motoring public demands.





Sun Testing Equipment

...builder of successful service operations

TODAY'S high compression, precision engines require expert service to maintain all the efficiency and performance that the manufacturer has built in.

Expert engine service begins with modern, efficient Test Equipment that gets to the problem quickly and definitely . . . the days of hit-or-miss guesswork are gone forever.

With Sun scientific test equipment, you eliminate guesswork entirely . . . Sun's built in accuracy and dependability makes you right the first time, eliminating costly comebacks and building customer confidence, the foundation of successful, profitable business.

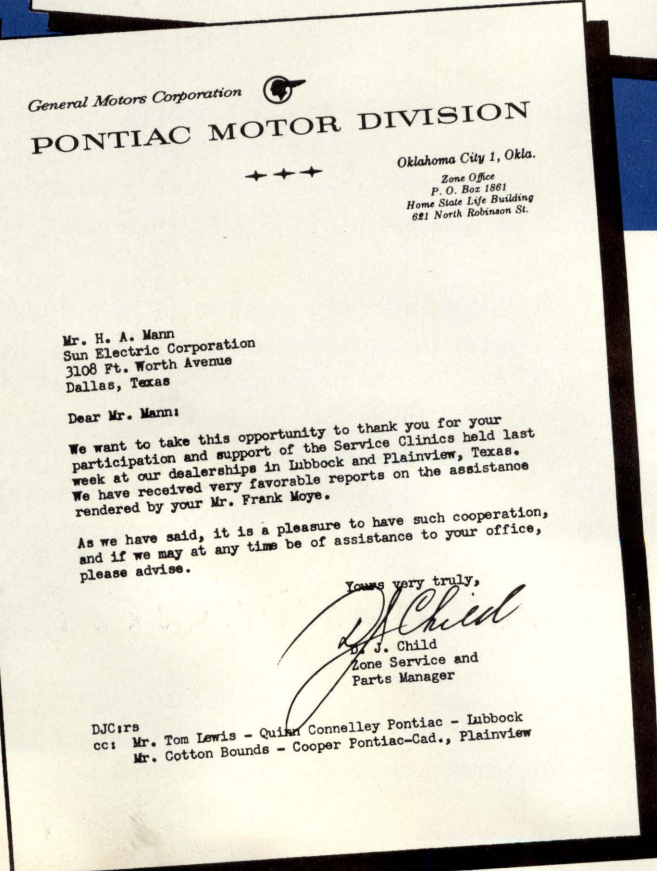
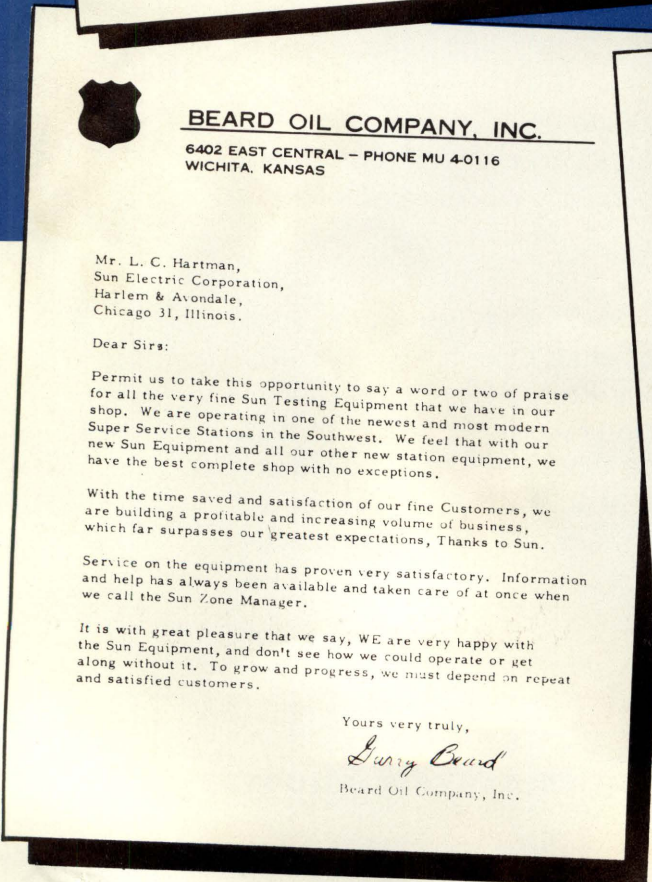
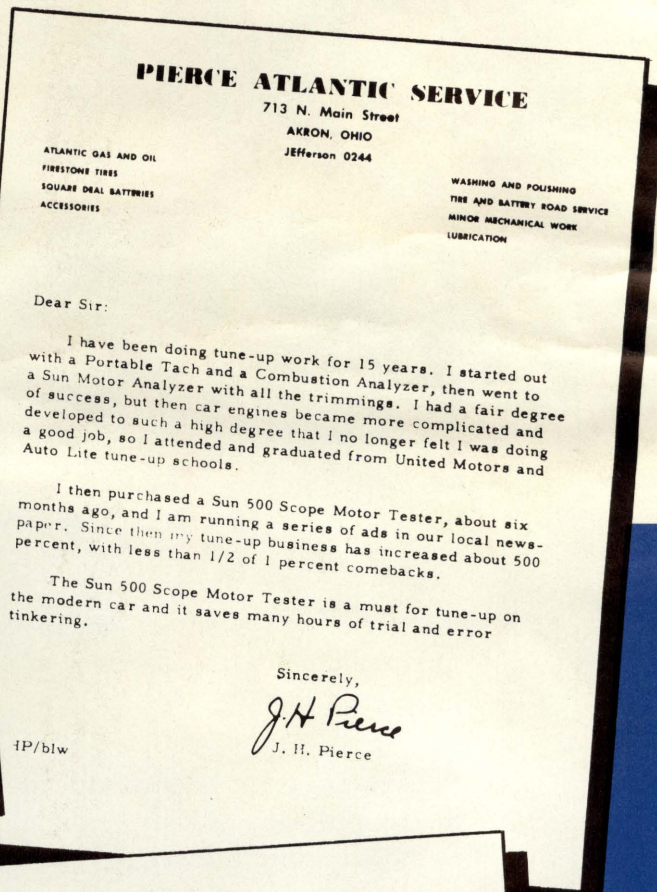
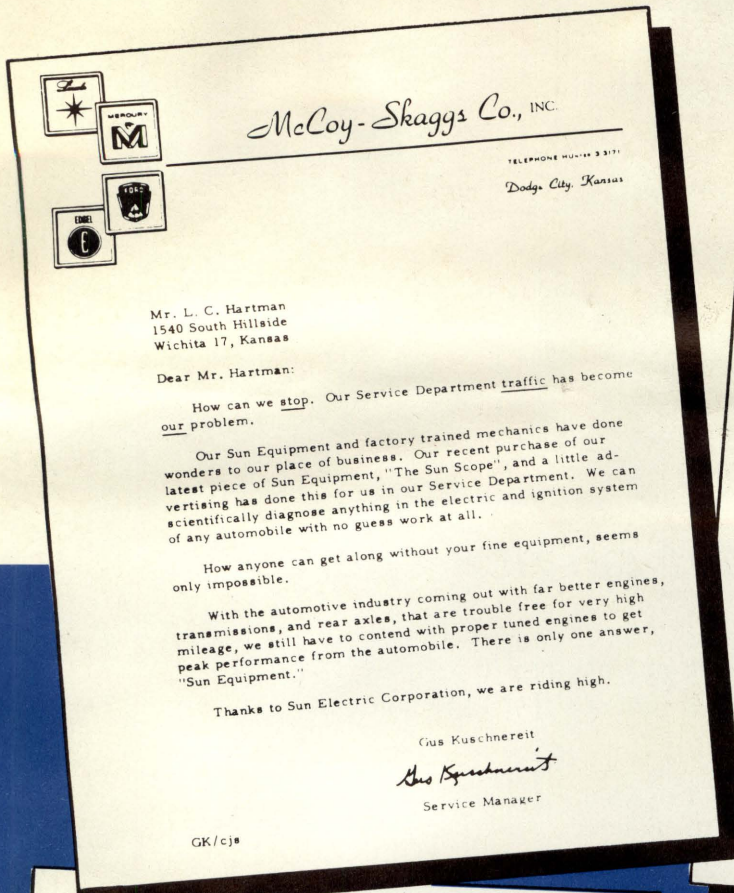
Think deeply of your customers' problems. Study and learn new and better ways to solve those problems. Put forth at all times a sincere effort to please your customers and better serve them. From such sincere efforts on your part there can be no lack of success in your chosen field. At the close of each day you can enjoy that supreme thrill and satisfaction that only comes with knowing beyond a shadow of a doubt that you have given the best that is in you to serve your customers on each daily contact.

SUN SERVICE EQUIPMENT

THE UNANIMOUS CHOICE OF THE AUTOMOTIVE SERVICE INDUSTRY

ALL PRICES SHOWN IN THIS CATALOG ARE EFFECTIVE JULY 1, 1961
PRICES SHOWN IN THIS CATALOG ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Add State and Local Sales and Use Tax to the Prices where Applicable.



THE SEAGRAVE CORPORATION

ORIGINATORS OF CENTRIFUGAL FIRE PUMPING ENGINES

MOTOR PROPELLED FIRE APPARATUS
OFFICE AND FACTORY
COLUMBUS, OHIO

Address of Correspondence to the Corporation

Sun Electric Corporation
6323 Avondale Avenue
Chicago 31, Illinois

Attention: Mr. Earl W. Grey

Gentlemen:

The Seagrave Corporation has used Sun Testing equipment throughout the plant for about ten (10) years and the results have been very gratifying.

Personally, I know in my department, I believe it has improved the performance of our product. Also, the excellent service on the equipment has greatly reduced loss of time and production.

Very truly yours,

THE SEAGRAVE CORPORATION

D. H. Sears
Don Sears
Final Assembly, Foreman

Valasek Bros. Esso Service

GENERAL AUTO REPAIRING
"If man made it, we fix it"

OFFICIAL INSPECTION STATION

PHONE 62-3861
CORNER OF FOURTH & TENTH STREET
FORD CITY, PA.

Sun Electric Corporation
Harlem and Avondale
Chicago 31, Illinois

Attention: Mr. A. T. Cashel

Dear Sir:

I want to tell you what a wonderful job your Sun Scope Tester is doing for us in my shop.

It is one of the best pieces of testing equipment that I have used or seen used. It makes it a pleasure to work on the tough ones--for it saves time finding out the real trouble. And I want to thank you for having a man like Mr. Dick Corbett, for he showed us what it means to have the best in testing equipment, as it has brought in a lot more work than I thought it would.

So I'll say this --- it is doing a terrific job for us.

Yours truly,

Steve Valasek

VALASEK BROTHERS

Hailey

1700-14 BROAD ST.
PHONE AM 7-4418



PARTS ACCESSORIES
WHOLESALE RETAIL

Chattanooga 8, Tennessee

Sun Electric Corporation
Harlem and Avondale
Chicago 31, Illinois

Gentlemen:

We have used Sun equipment for over 25 years and have always found it very satisfactory, and to add to the fine equipment we have had excellent service from your representative.

In most cases, when we call we get action the same day--never over two days. This kind of service we value very high.

Yours truly,

R. L. Hixson

R. L. Hixson,
Service Manager

RLH/dl

LIBERTY TRUCKING CO.

PART COURTEOUS & DEPENDABLE TRANSPORTATION
BELLOIT JANESVILLE EDGEMONT STOUTSTON MADISON
PREEPORT ROCKFORD DEARBORN ELGIN CHICAGO

GENERAL OFFICES
1401 W. FULTON ST. TEL. MA-14441
CHICAGO 7, ILL.

Mr. Art Damm
Sun Electric Corporation
6323 Avondale Avenue
Chicago 31, Illinois

Dear Art:

In reply to your inquiry as to the effectiveness of your Cylinder Leakage Tester in our maintenance program, please be advised that since we purchased the complete leakage testing kit, we have incorporated its use into our 4,000 mile preventive maintenance inspection.

Our mechanics have accepted this equipment and use it with complete co-operation. It discovers, for us, conditions that we had previously missed by the use of compression gauges and, more importantly, it pinpoints accurately the cause and extent of leakages. This, of course, helps us make decisions as to whether or not a vehicle should be pulled out of service.

Our shops are completely equipped with Sun apparatus in sufficient quantity for thorough checking of the vehicle components. I do not think we are exaggerating to state that the Leakage Tester is one of the most valuable items in the equipment we have purchased from you.

Yours very truly,

Ben Sorci
Ben Sorci, Director
Safety & Maintenance

BS:bj

ONLY SUN GIVES YOU A 6-POINT PROGRAM FOR *Satisfaction Guaranteed*

Yes, only Sun gives you all the "extras" that help give you "Satisfaction Guaranteed" with your equipment purchase. Those "extras" include your nearby Sun representative and his 6-point program.

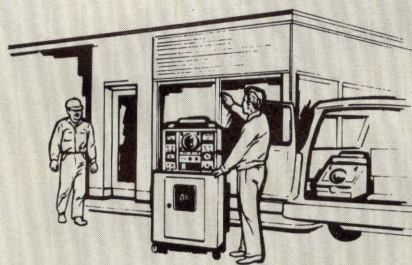
Your Sun representative in a way owns his own business—a full-line of Sun Equipment—and he always has your best interests at heart. As you grow, so does he.

From the selection help you need, right through training, and any service needs, he's available, "johnny-on-the-spot" to give you any assistance. Here's how it works.

This famous 6-point program is something no other equipment manufacturer can match! And it ends your worry about who to see once your equipment is delivered. Your Sun representative is an expert—always available—and can answer your problems.

And what's more—just as you get "Satisfaction Guaranteed"—so do your customers—from the Expert Engine Service you perform with your Sun precision Service Equipment. Why not start now to "test—don't guess" with Sun—and there's no guessing either about the finest equipment available . . . that's Sun, too.

***There's Sun Profit
Producing Equipment
and Service to fit
the needs of every
service operation!***



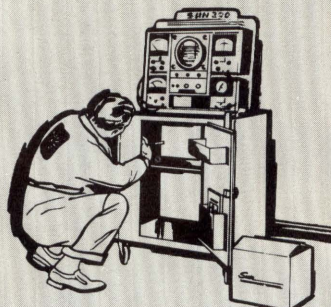
EQUIPMENT SELECTION HELP

Your Sun representative will analyze your business and your present equipment to help you determine which models best suit your needs.



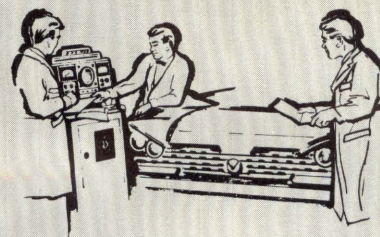
EASY PAYMENT PLAN

Your Sun man has a tailor-made purchase plan for you. Low down payment and convenient terms may be arranged so you can enjoy the benefits of your equipment immediately.



DELIVERY and INSTALLATION

The same Sun man from whom you buy your equipment will expedite the delivery . . . then help you organize the installation in your shop or station for the greatest efficiency.



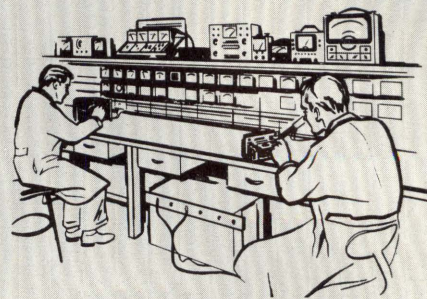
EQUIPMENT TRAINING

He'll train you and your men so that you can immediately get the full value from your equipment. He'll provide you with all the "know-how" and technical information that will make you a real expert.



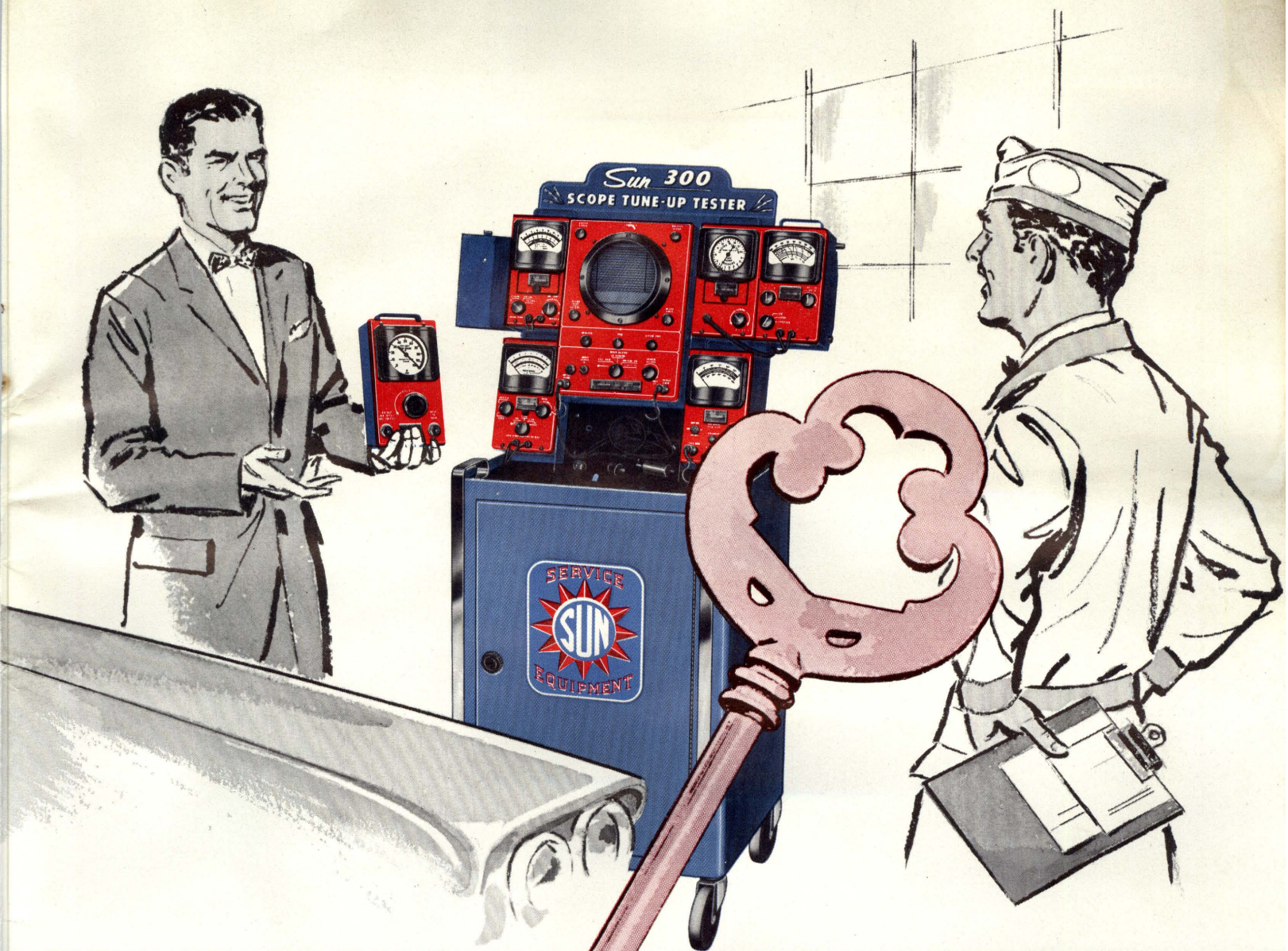
MERCHANDISING and SALES AIDS

And you get more than just equipment! Your Sun representative has exciting new merchandising programs for you—including colorful window posters seen by millions in national advertising.



SERVICING

He'll see to it that your service needs are taken care of should minor or major repairs become necessary. There are over 30 Sun service branches across the country—fully staffed and prepared to expedite your equipment repairs so there's no lost time.



presenting...

SUN
PROFIT
PLANNED
TEST
EQUIPMENT

your key to greater profits in automotive service

PRESENTING SUN'S NEW PROFIT-PLA

Now you can select from a series of PLANNED testers, each consisting of separate testing units combined to cover a specific testing range.

This planned selection lets you purchase the group of units that meet your immediate testing requirements and your budget.

As your testing equipment boosts your service profits, you can easily and economically "ADD ON" units that immediately broaden your testing range—actually increase your service coverage, speed up your work and build your reputation as a Testing Technician.

This new method of "Profit Planning" is made possible by "UNITIZED" test equipment, the greatest advancement in test equipment flexibility and economy in years.

*Price includes cabinet, head frame and mounting brackets



*** PRICE**
948.00

Includes
Operating Accessories

MODEL TUT 200

EIGHT UNIT TUNE-UP TESTER

Includes:

Cylinder Leakage Tester, CLT-228
Volts Ignition Tester, VIT-218
Tach Dwell Tester, TDT-216-1
Coil Circuit Tester, CCT-222
Vacuum Pressure Tester, VPT-212
Electronic Distributor Tester, EDT-214
Combustion Efficiency Tester, CET-220
Condenser Resistance Tester, CRT-224

*** PRICE**
724.00

Includes
Operating Accessories

MODEL TUT 200

FOUR UNIT TUNE-UP TESTER

Includes:

Volts Ignition Tester, VIT-218
Tach Dwell Tester, TDT-216-1
Vacuum Pressure Tester, VPT-212
Electronic Distributor Tester, EDT-214

MODEL TUT 200

SIX UNIT TUNE-UP TESTER

Includes:

Cylinder Leakage Tester, CLT-228
Volts Ignition Tester, VIT-218
Tach Dwell Tester, TDT-216-1
Vacuum Pressure Tester, VPT-212
Electronic Distributor Tester, EDT-214
Combustion Efficiency Tester, CET-220

PLANNED LINE UP OF *Unitized* TESTERS

You can build your Tune-Up equipment from a two-unit ignition tester to an eventual nine-unit Scope Tune-Up Tester, simply by adding on single unitized testers that are being paid for by your increased service profits.

This is how "Profit Planning" starts a shop in the Tune-Up business and sticks with it until it is thoroughly equipped to do "BIG JOB" service. You can start anywhere along the line in selecting the group of testers that suits your operation and budget.

There's a Sun "PROFIT PLANNED" Tune-Up Tester for your shop—study the testers, their potential, their value, and their "Years Ahead" features; then see how easy it is to plan and build an ever increasing profitable future around Sun "Profit Planned" Tune-Up Testers.

*Price includes cabinet, head frame and mounting brackets



*** PRICE**
1046.00
Includes
Operating Accessories

*** PRICE**
1294.00
Includes
Operating Accessories

MODEL STUT 300 FIVE UNIT SCOPE TUNE-UP TESTER

Includes:
Sun Scope, SS-550
Volts Ignition Tester, VIT-218
Tach Dwell Tester, TDT-216-1
Vacuum Pressure Tester, VPT-212
Electronic Distributor Tester, EDT-214

*** PRICE**
1516.00
Includes
Operating Accessories

MODEL STUT 300 NINE UNIT SCOPE TUNE-UP TESTER

Includes:
Sun Scope, SS-550
Cylinder Leakage Tester, CLT-228
Volts Ignition Tester, VIT-218
Tach Dwell Tester, TDT-216-1
Coil Circuit Tester, CCT-222
Vacuum Pressure Tester, VPT-212
Electronic Distributor Tester, EDT-214
Combustion Efficiency Tester, CET-220
Condenser Resistance Tester, CRT-224

MODEL STUT 300 SEVEN UNIT SCOPE TUNE-UP TESTER

Includes:
Sun Scope, SS-550
Cylinder Leakage Tester, CLT-228
Volts Ignition Tester, VIT-218
Tach Dwell Tester, TDT-216-1
Vacuum Pressure Tester, VPT-212
Electronic Distributor Tester, EDT-214
Combustion Efficiency Tester, CET-220

THE **SUN** FAMILY OF *"Profit"*

Now, through exclusive Sun "UNITIZING," you select any combination of testers to suit your immediate needs.

As testing increases your service business, you can (thanks again to "Unitizing") ADD ON units easily and economically to even further increase your service facilities and your profits.

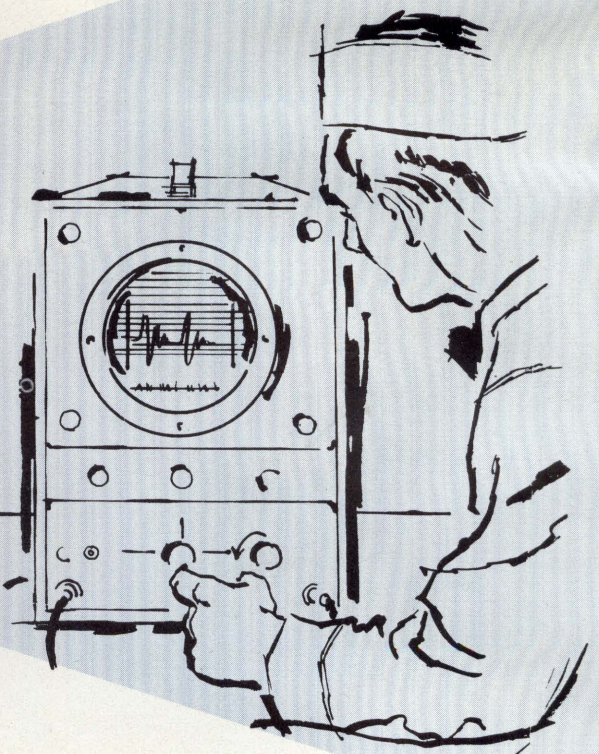
Shown here are the units that make "Profit Planning" possible . . . single *UNITIZED* testers that combine to offer you the simplicity, speed and accuracy necessary to deliver topnotch service. Each tester gives you the facts on a specific engine or electrical area.

This is the Sun family of Unitized Testers — *Planned to Grow with YOUR Business.*

SUN SCOPE **MODEL SS-550**



PRICE
560.00



The bright, new profit-picture for your shop

Why waste costly time using out dated methods in determining causes of ignition troubles when the Sun Scope Picture provides 100% correct answers in seconds.

The unique Sun Scope Picture gives you more facts about the operating efficiency and condition of the ignition system and its components than any other scope on the market.

It displays the *only picture* that converts your time so quickly and easily into additional profits by showing

you and your customer the exact needs of his vehicle's ignition system.

Show-'em, and Sell-'em . . . Sun Scope Testing gives you a really new method of service selling. The brilliant Sun Scope Picture lets you "Show" your customers the condition of their ignition systems . . . lets you sell all the needed work and sell it based on visually proven facts. Result—"Satisfaction Guaranteed" service for your customers, and "Maximum profits" for you.

Your Sun Representative can show you the whole picture . . . contact him today.

POWER REQUIREMENTS: Model SS-550, 115 volts, 50/60 cycle, single phase AC. • Model SS-550-1, 230 volts, 50/60 cycle, single phase AC. • The Sun Scope can also be powered from the vehicles battery by using any standard 100 Watt inverter. **PRICES AVAILABLE UPON REQUEST**

Planned" TESTERS



COMBUSTION EFFICIENCY TESTER

MODEL CET-220

—Accurately indicates air-fuel ratios of gasoline, propane and butane burning engines directly on a meter. No guesswork—you know exactly what the carburetor is doing at all times.

\$148.00



CYLINDER LEAKAGE TESTER

MODEL CLT-228

—The ultimate in determining combustion chamber conditions without disassembly of the engine. This instrument accurately indicates combustion chamber leakage and pinpoints location of all leaks.

\$98.00



ELECTRONIC DISTRIBUTOR TESTER

MODEL EDT-214

—Unique in operation, this accurate instrument measures distributor advance mechanism operation at any reasonable speed without removing the distributor from the engine. It also provides a quick, convenient means of testing or adjusting initial ignition timing.

\$160.00



VACUUM- PRESSURE TESTER

MODEL VPT-212

—Accurately measures: Manifold Vacuum, Fuel Pump Vacuum, Fuel Pump Pressure, Booster Pump Vacuum, Cranking Vacuum.

\$40.00



TACH-DWELL TESTER

MODEL TDT-216-1

—This combined Electric Tachometer and Dwell Meter will read either engine speed or distributor point dwell at the flick of a switch.

Two scale ranges accommodate 4, 6, and 8 cylinder engine readings.

\$98.00



VOLTS - IGNITION TESTER

MODEL VIT-218

—A meter type ignition system efficiency tester. Designed for rapid, accurate tests of ignition system operation and circuit voltage tests.

\$98.00

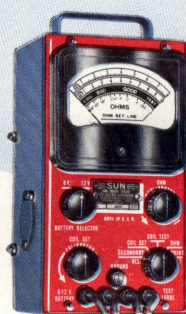


CONDENSER RESISTANCE TESTER

MODEL CRT-224

—Completely tests all types of ignition condensers, including those from magnetos. All tests performed in the vehicle or on the bench with equal ease. Through two ohmmeter scales, facilities for testing condition, and continuity of ignition parts and other electrical system components, are also provided.

\$110.00



COIL CIRCUIT TESTER

MODEL CCT-222

—Highly accurate meter type instrument quickly indicates ignition coil condition "on" or "off" the vehicle. Tests both primary and secondary windings for opens, shorts, grounds and insulation breakdown. Equipped with ohmmeter scale for measuring resistance value of suppressor resistors, spark plugs, and other ignition system components.

\$110.00

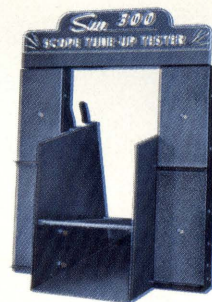
CABINET, HEAD FRAMES AND MOUNTING BRACKETS INCLUDED WITH SUN 200 AND 300 TUNE UP TESTERS

CABINET



MODEL C22—\$70.00

HEAD FRAMES



MODEL
STUT-300HF

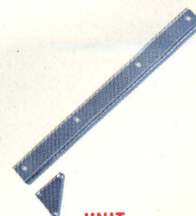
\$20.00



MODEL
TUT-200HF

\$10.00

UNIT MOUNTING BRACKET AND ANGLE KITS



UNIT
MOUNTING ANGLE
MODEL UMA
\$1.00



UNIT
MOUNTING BRACKET
MODEL UMB
\$1.00

Sun QUICK SERVICE TESTERS...

the Sun **600** QUICK SERVICE TESTER MODEL QST 600



The Model 600 offers all the same QUICK SERVICE features as the Model 700 but does not include the Sun Scope.

Designed as a minimum cost tester, the Sun 600 can at any time be easily and economically converted to include the Sun Scope.

Conversion within a year from date of your purchase will be made for only the price of the Scope.

FEATURES:

Complete test facilities for 6, 12 and 24 volt equipped vehicles.

All new "TRANSISTORIZED" tachometer, features three scales: 0 to 1,000, 0 to 5,000, and 0 to 10,000 RPM.

All test circuits voltage regulated, providing automatic compensation for line voltage variations.

Vacuum readings in both "inches" and "millimeters" for convenience when testing either American or Foreign built vehicles.

D'Arsonval meters with guaranteed 2% accuracy at full scale deflection.

Pilot Light and Master Control Switch on head-frame.

TESTS:

- | | |
|---------------------------------------|---------------------------|
| • Cranking Voltage | • Distributor Resistance |
| • Charging Voltage | • Distributor Point Dwell |
| • Battery Cables | • Dwell Variation |
| • Ignition Primary Circuit Resistance | • Engine Speed |
| • Primary Circuit Insulation | • Manifold Vacuum |
| • Battery Leakage | • Cranking Vacuum |
| • Ignition Efficiency | • Exhaust Restriction |
| • Secondary Resistance | • Fuel Pump Vacuum |
| • Secondary Polarity | • Fuel Pump Pressure |
| • Cylinder Leakage | • Vacuum Booster Pump |
| | • Combustion Efficiency |

CONSISTS OF:

Tach Dwell Leakage Unit.....	Model 15
Volts Combustion Vacuum Unit.....	Model 25
Cabinet	Model C-24
Head Frame.....	Model QST-600-HF

PRICE 430.00

INCLUDES OPERATING ACCESSORIES

POWER REQUIREMENTS: QST-600, 115 volt 60 cycle, 1 phase • QST-600-1, 230 volt 60 cycle, 1 phase
QST-600-2, 115 volt 50 cycle, 1 phase • QST-600-3, 230 volt 50 cycle, 1 phase

DESIGNED FOR FAST-ACTION SERVICE QUICK, DEPENDABLE, SIMPLE TO OPERATE

The totally New Sun 700 is designed especially for Quick Service testing.

Streamlined "QUICK SERVICE" test procedure permits screening of all five under-hood systems in just minutes.

Minimized engine speed changes, plus new simplified lead connections and controls make the 700 so easy to operate, any mechanic can quickly become a skilled "QUICK SERVICE" expert.

FEATURES:

Complete test facilities for 6, 12 and 24 volt equipped vehicles.

All new "TRANSISTORIZED" tachometer, features three scales: 0 to 1,000, 0 to 5,000, and 0 to 10,000 RPM.

All test circuits voltage regulated, providing automatic compensation for line voltage variations.

Vacuum readings in both "inches" and "millimeters" for convenience when testing either American or Foreign built vehicles.

D'Arsonval meters with guaranteed 2% accuracy at full scale deflection.

Featuring the famous Sun Scope for the utmost speed in ignition system testing.

Pilot Light and Master Control Switch on head-frame.

TESTS:

- Cranking Voltage
- Charging Voltage
- Battery Cables
- Ignition Primary Circuit Resistance
- Primary Circuit Insulation
- Battery Leakage
- Ignition Efficiency
- Secondary Resistance
- Secondary Polarity
- Cylinder Leakage
- Distributor Resistance
- Distributor Point Dwell
- Dwell Variation
- Engine Speed
- Manifold Vacuum
- Cranking Vacuum
- Exhaust Restriction
- Fuel Pump Vacuum
- Fuel Pump Pressure
- Vacuum Booster Pump
- Combustion Efficiency
- Ignition Coil Output During Cranking
- Ignition Firing Requirements
- Available Secondary Ignition Voltage
- Ignition Reserve
- Coil Condition
- Breaker Point Action
- Dwell Angle Comparison
- Point Arcing
- Point Bounce
- Erratic Point Closing
- Distributor Cam Lobe Accuracy
- Spark Plug Conditions

CONSISTS OF:

Tach Dwell Leakage Unit.....Model 15
Sun Scope.....Model SS-550
Volts Combustion Vacuum Unit.....Model 25
Cabinet.....Model C-24
Head Frame.....Model QST-700-HF

POWER REQUIREMENTS: QST-700, 115 volt 60 cycle, 1 phase • QST-700-1, 230 volt 60 cycle, 1 phase
QST-700-2, 115 volt 50 cycle, 1 phase • QST-700-3, 230 volt 50 cycle, 1 phase

the Sun
7 SCOPE

QUICK SERVICE TESTER MODEL QST 700



PRICE 990.00
INCLUDES OPERATING ACCESSORIES

THE MOST COMPLETE

"Profit Producing"

the great new Sun

800

MOTOR TESTER MODEL MT-800



PRICE 830.00
INCLUDES OPERATING ACCESSORIES

The 800 and 900 Testers are distinct representations of Sun's inherent quality and progressive engineering.

Sun's characteristic clean-cut design, easy to read instrumentation, and built-in accuracy, combined with even newer time saving features, make the 800 and 900 Testers the finest equipment Sun has yet produced.

The 800 Motor Tester is completely AC powered, needing just one power cord to any convenient outlet. Large, easy to read meters show you the facts quickly and accurately. Rugged, functional construction assures years of trouble-free service.

FEATURES:

- Complete test facilities for 6, 12 and 24 volt equipped vehicles.
- All new "TRANSISTORIZED" Tachometer, features three scales: 0 to 1,000, 0 to 5,000, and 0 to 10,000 RPM.
- Ignition coil testing simplified with unique "COIL TEST SCOPE".
- All test circuits voltage regulated, providing automatic compensation for line voltage variations.
- Vacuum readings in both "inches" and "millimeters" for convenience when testing either American or foreign built vehicles.
- Large, 6" D'Arsonval meters — fully illuminated.
- Individual pilot lights on each test panel.

TESTS:

- | | |
|---------------------------------------|----------------------------|
| • Cranking Voltage | • Dwell Variation |
| • Charging Voltage | • Engine Speed |
| • Battery Cables | • Condenser Resistance |
| • Ignition Primary Circuit Resistance | • Condenser Capacity |
| • Primary Circuit Insulation | • Condenser Leakage |
| • Battery Leakage | • Coil Primary Windings |
| • Ignition Efficiency | • Coil Secondary Windings |
| • Secondary Resistance | • Ignition Coil Insulation |
| • Secondary Polarity | • Manifold Vacuum |
| • Initial Ignition Timing | • Cranking Vacuum |
| • Ignition Timing Advance | • Exhaust Restriction |
| • Cylinder Leakage | • Fuel Pump Vacuum |
| • Distributor Resistance | • Vacuum Booster Pump |
| • Distributor Point Dwell | • Combustion Efficiency |

CONSISTS OF:

Voltage Leakage Unit.....	Model 20
Tach Dwell Unit.....	Model 40
Condenser Coil Unit.....	Model 60
Combustion Vacuum Unit.....	Model 80
Cabinet.....	Model C-27
Head Frame.....	Model MT-800HF

POWER REQUIREMENTS: MT-800, 115V 60 Cycle 1 Phase • MT-800-1, 230V 60 Cycle 1 Phase • MT-800-2, 115V 50 Cycle 1 Phase
• MT-800-3, 230V 50 Cycle 1 Phase

PRICES AVAILABLE UPON REQUEST

From the wondrous world of electronic science, comes the new Sun 900 Scope Motor Tester. This newest of the New Sun Line, quickly and easily acquaints the mechanic with every major operating component of the modern automobile and truck power plant.

One simple, easy lead hookup, and the Sun 900 is ready to go to work.

The Sun 900 gets right to the heart of the engine operation . . . lets the mechanic analyze, inspect, and understand the engine's function as never before.

The all new Sun 900 will indeed be the most profit producing investment in your shop.

FEATURES:

- Complete test facilities for 6, 12 and 24 volt equipped vehicles.
- All new **"TRANSISTORIZED"** Tachometer, features three scales: 0 to 1,000, 0 to 5,000, and 0 to 10,000 RPM.
- Ignition coil testing simplified with unique **"COIL TEST SCOPE"**.
- All test circuits voltage regulated, providing automatic compensation for line voltage variations.
- Vacuum readings in both "inches" and "millimeters" for convenience when testing either American or foreign built vehicles.
- Large, 6" D'Arsonval meters — fully illuminated.
- Individual pilot lights on each test panel.

TESTS:

- | | |
|---------------------------------------|--|
| • Cranking Voltage | • Manifold Vacuum |
| • Charging Voltage | • Cranking Vacuum |
| • Battery Cables | • Exhaust Restriction |
| • Ignition Primary Circuit Resistance | • Fuel Pump Vacuum |
| • Primary Circuit Insulation | • Vacuum Booster Pump |
| • Battery Leakage | • Combustion Efficiency |
| • Ignition Efficiency | • Ignition Coil Output during Cranking |
| • Secondary Resistance | • Ignition Coil Polarity |
| • Secondary Polarity | • Ignition Firing Requirements |
| • Initial Ignition Timing | • Available Secondary Ignition Voltage |
| • Ignition Timing Advance | • Ignition Reserve |
| • Cylinder Leakage | • Coil and Condenser Condition |
| • Distributor Resistance | • Breaker Point Action |
| • Distributor Point Dwell | • Dwell Angle Comparison |
| • Dwell Variation | • Point Arcing |
| • Engine Speed | • Point Bounce |
| • Condenser Resistance | • Erratic Point Closing |
| • Condenser Capacity | • Distributor Cam Lobe Accuracy |
| • Condenser Leakage | • Spark Plug Conditions |
| • Coil Primary Windings | |
| • Coil Secondary Windings | |
| • Ignition Coil Insulation | |

CONSISTS OF:

Voltage Leakage Unit.....	Model 20
Tach Dwell Unit.....	Model 40
Sun Scope.....	Model SS-550
Condenser Coil Unit.....	Model 60
Combustion Vacuum Unit.....	Model 80
Cabinet.....	Model C-37
Head Frame.....	Model SMT-900HF

the great new Sun

900

SCOPE MOTOR TESTER MODEL SMT-900



PRICE 1,410.00

INCLUDES OPERATING ACCESSORIES

POWER REQUIREMENTS: SMT-900, 115V 60 Cycle 1 Phase •

SMT-900-1, 230V 60 Cycle 1 Phase • SMT-900-2, 115V 50 Cycle 1 Phase •

SMT-900-3, 230V 50 Cycle 1 Phase PRICES AVAILABLE UPON REQUEST

a real "Profit Maker" for your service operation...

the New

SUN DISTRIBUTOR TESTER

MODEL DT-400

Cash in on profitable distributor service the "TESTED" way with this new low cost Sun 400 Distributor Tester. Quality designed to fit the requirements of the smaller shop, the new 400 offers the mechanic a real profit-proven service tool . . . really sets you up for super service. Available on the portable cabinet or as a bench model for minimum space requirements, this new Sun 400 is loaded with "PROFIT PROVEN" features that have made Sun famous. So don't delay profits . . . call your Sun Representative today for an "on the spot" demonstration of this great tester.

TESTS:

- Distributor Resistance
- Breaker Point Spring Tension
- Cam Lobe Accuracy
- Shaft and Bushing Wear
- Breaker Point Alignment
- Breaker Point Dwell
- Dwell Variation
- Breaker Point Bounce
- Centrifugal Advance Operation
- Vacuum Chamber Condition
- Breaker Plate Operation
- Distributor Plate & Housing Wear
- Vacuum Advance Calibration
- Dual Point Synchronization

Tester is equipped with a Scroll Assembly which lists important Distributor Test Specifications in a manner most convenient for the operator. Specifications provided, cover approximately a seven year period including current year's production. Its unique construction permits three minute scroll sheet replacement. Up-to-date, printed scroll sheets are available early each year.

CONSISTS OF:

Distributor Drive Unit.....Unit 51
Tach Dwell Vacuum Unit.....Unit 53
Head Frame.....Model DT-400HF
Cabinet.....Model C-24

POWER REQUIREMENTS:

DT-400 0-3000 RPM, 115V 60 Cycle AC • DT-400-1 0-3000 RPM, 115V 50 Cycle AC • DT-400-2 0-4000 RPM, 115V 60 Cycle AC • DT-400-3 0-4000 RPM, 115V 50 Cycle AC • DT-400-4 0-3000 RPM, 230V 60 Cycle Single Phase AC • DT-400-5 0-3000 RPM, 230V 50 Cycle Single Phase AC • DT-400-6 0-4000 RPM, 230V 60 Cycle Single Phase AC • DT-400-7 0-4000 RPM, 230V 50 Cycle Single Phase AC • PRICES AVAILABLE UPON REQUEST



PRICE \$620.00

Includes All Operating
Accessories

get the "Bonus Profits" in distributor service with

the New **SUN DISTRIBUTOR TESTER** MODEL DT-500

There are more profits for you when you start completely servicing and reconditioning distributors in your shop. The distributor is the nerve center of the engine—to keep this vital component in proper working condition is an important function of any service operation. With the Sun DT-500, this service can be performed easily, accurately and profitably. Recognized as the finest distributor tester on the market today, the new Sun 500 is built to provide COMPLETE distributor testing facilities which duplicates all conditions encountered during engine operation. Get your share of this profitable service and get it the easy "TESTED" way—Contact your local Sun Representative and see this great new Sun 500 in action.

TESTS:

- Condenser Resistance
- Condenser Capacity
- Condenser Insulation
- Distributor Resistance
- Breaker Point Spring Tension
- Cam Lobe Accuracy
- Distributor Shaft & Bushing Wear
- Breaker Point Alignment
- Breaker Point Dwell
- Dwell Variation
- Breaker Point Bounce
- Dual Point Synchronization
- Centrifugal Advance Operation
- Vacuum Chamber Condition
- Breaker Plate Operation

Tester is equipped with a Scroll Assembly which lists important Distributor Test Specifications in a manner most convenient for the operator. Specifications provided, cover approximately a seven year period including current year's production. Its unique construction permits three minute scroll sheet replacement.

CONSISTS OF:

Tach Dwell Unit.....	Unit 50
Distributor Drive Unit.....	Unit 51
Condenser Vacuum Unit.....	Unit 52
Head Frame.....	Model DT-500HF
Cabinet.....	Model C-27

POWER REQUIREMENTS:

DT-500 0-3000 RPM, 115V 60 Cycle AC • DT-500-1 0-3000 RPM, 115V 50 Cycle AC • DT-500-2 0-4000 RPM, 115V 60 Cycle AC • DT-500-3 0-4000 RPM, 115V 50 Cycle AC • DT-500-4 0-3000 RPM, 230V 60 Cycle Single Phase • DT-500-5 0-3000 RPM, 230V 50 Cycle Single Phase • DT-500-6 0-4000 RPM, 230V 60 Cycle Single Phase • DT-500-7 0-4000 RPM, 230V 50 Cycle Single Phase • PRICES AVAILABLE UPON REQUEST



PRICE \$760.00

Includes All Operating
Accessories

SUN GENERATOR-REGULATOR TESTER

MODEL GRT-125

Be Equipped to Sell Profitable Generator and Regulator Service

Meet the demanding requirements of today's generator and regulator service market, and meet them with a real reliable profit maker . . . the new Sun GRT-125.

The Sun GRT-125 does all your thinking for you. Sun research and development has incorporated all the timesaving and fact finding features possible into one compact, sturdy unit. Unique panel layout and functional test facilities makes you a Generator and Regulator specialist.

Be prepared to perform quick, easy, off the vehicle testing of all 6, 12 and 24 volt gener-

ators and regulators under actual vehicle operating conditions. You'll be amazed at how this great tester reduces tricky, time consuming generator and regulator servicing to mere minutes, and with the additional benefits of knowing you've done *all* the work right the first time.

Call your Sun Representative today . . . set up an appointment to see this great new Sun Tester in action right in your own shop . . . let him show you how easy and economical it is to get equipped for really profitable generator and regulator servicing.

TESTS:

- Alternators
- Generator Mechanical Condition
- Field Coil Current Draw
- Generator Output
- Cut-Out Relay Action
- Closing Voltage
- Opening Amperage
- Voltage Regulator Operation
- Voltage Limit Setting
- Current Regulator Operation
- Current Limit Setting
- Tests Voltage Regulators in Every Specified Manner:—
 - With $\frac{1}{4}$ Ohm in Series with Battery
 - Variable Load with Battery in Circuit
 - Open Circuit Method for Heavy Duty Units
- Exclusive Circuitry and Tell-Tale Lights Provide Quick and Accurate Indication of Double Contact Regulator Operating Stages.

POWER

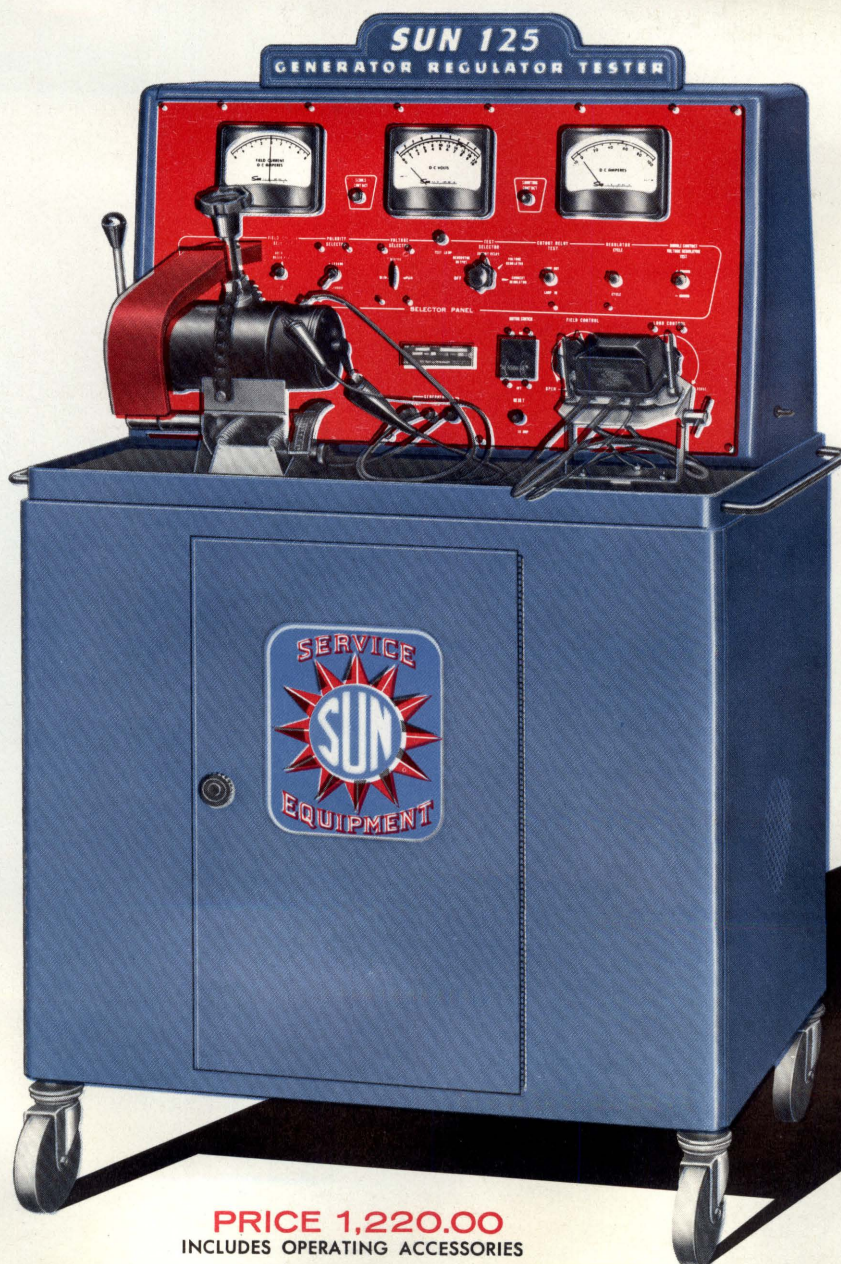
REQUIREMENTS:

GRT-125, 230V 60 cycle single phase AC • GRT-125-1, 230V 50 cycle single phase AC.

PRICES AVAILABLE UPON REQUEST

CONSISTS OF:

Head—Complete
Cabinet—Model C-35



PRICE 1,220.00
INCLUDES OPERATING ACCESSORIES
Generator, Regulator and Batteries
not included

SUN GENERATOR-REGULATOR TESTER

MODEL GRT-70

For "Big Job" Generator-Regulator Testing

Designed and built specifically for bench testing, adjusting and calibrating 6-12-24 and 32 volt DC generators, regulators and starting motors.

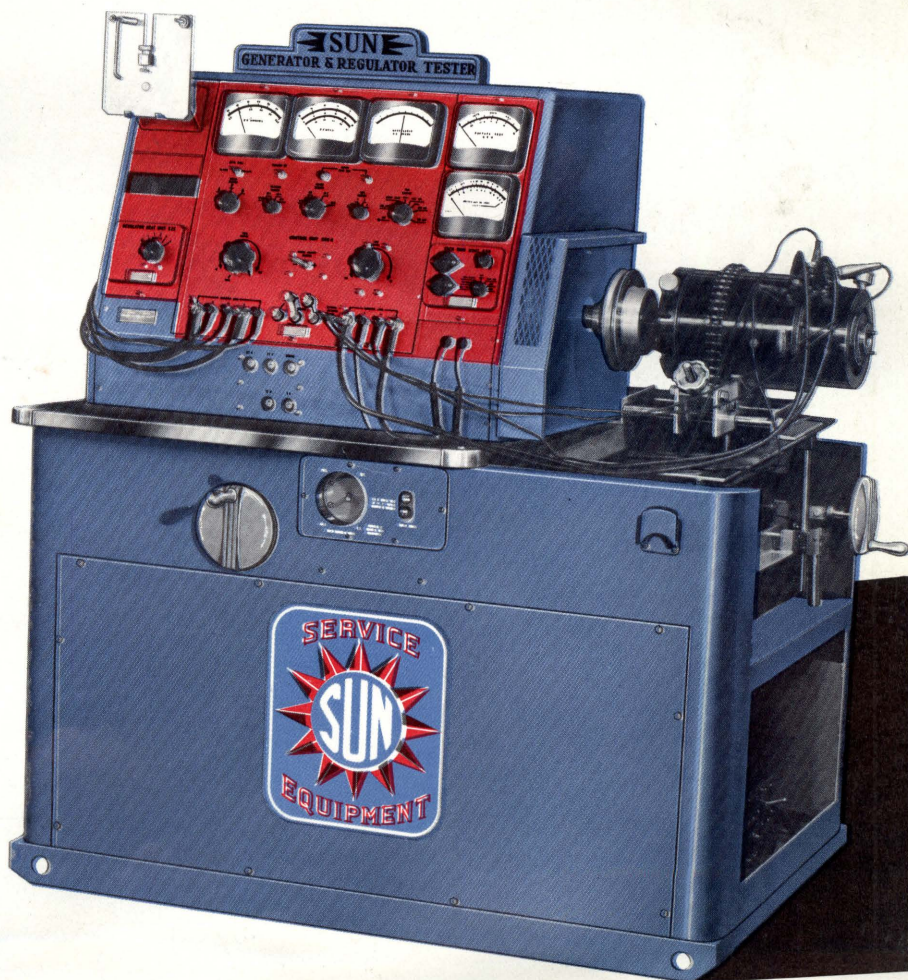
Capable of handling conventional, heavy duty and split field generators as well as 3, 4, 5 and 6 unit regulators, the GRT-70 is tailored to handle "big job" needs, with precise speed and unmatched accuracy.

The GRT-70 is engineered with all the famous Sun quality features that guarantee accuracy, dependability and economy of operation. If your operation depends on speed and versatility, you'll find them both and more in this GRT-70.

THE FAMOUS SUN GRT-70 MAKES ALL OF THESE TESTS:

- Generator Mechanical Condition
- Field Current Draw
- Generator Output
- Cut-Out Relay Action
- Closing Voltage
- Opening Amperage
- Voltage Regulator Operation
- Voltage Limit Setting
- Current Regulator Operation
- Current Limit Setting
- Actuating Relay Operation
- Circuit Breaker Operation
- Starting Motor Lock Torque
- Standing Motor No-Load
- Tests Voltage Regulators in Every Specified Manner:—
 - with $\frac{1}{4}$ Ohm in Series with Battery.
 - Variable Load with Battery in Circuit.
 - Open Circuit Method for Heavy Duty Units.

The tester is powered to properly test standard and heavy duty generators, starting motors, regulators and alternators in accordance with each manufacturer's recommendations. The capacity of the tester for generators and regulators is as follows: 6 volt systems, 180 amperes at 8 volts; 12 volt systems, 150 amperes at 16 volts; 24 volt systems, 100 amperes at 30 volts; 32 volt system, 50 amperes at 36 volts.



PRICE 3,820.00

INCLUDES OPERATING ACCESSORIES

Generator, Regulator and Batteries
not included

POWER REQUIREMENTS:

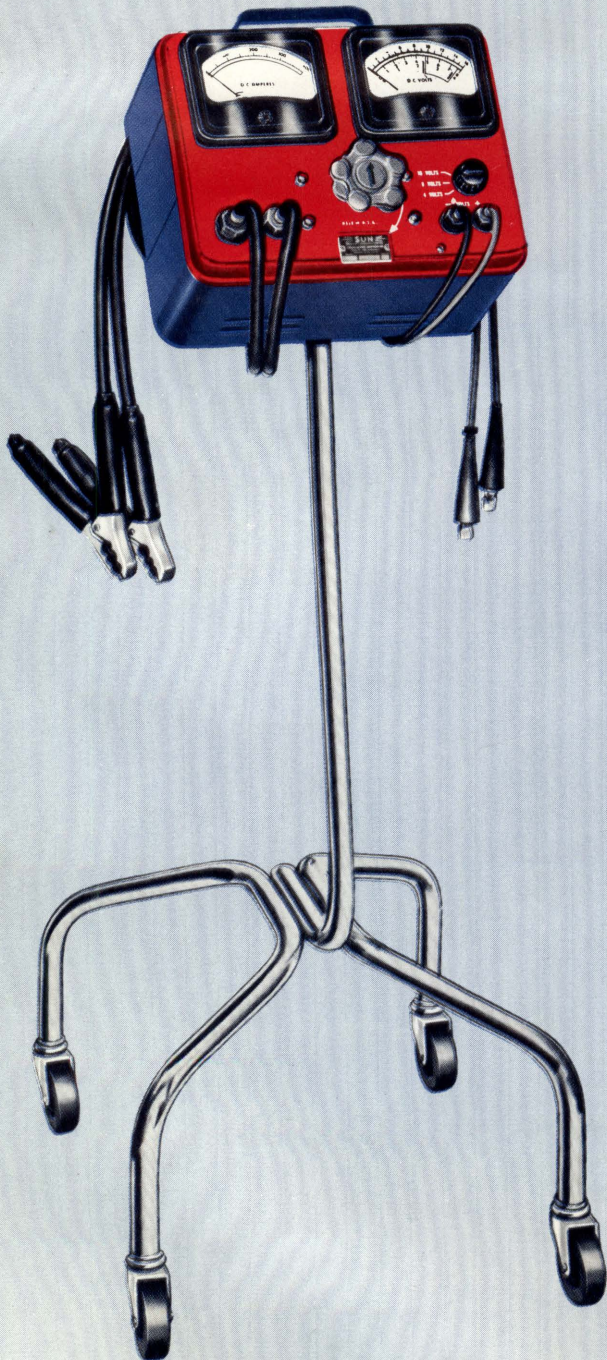
GRT-70, 230V 60 cycle 3 phase AC • GRT-70-2, 440V 60 cycle 3 phase AC • GRT-70-3, 230V 50 cycle 3 phase AC.

PRICES AVAILABLE UPON REQUEST

Be Ready for Profitable Battery Service...

SUN BATTERY STARTER TESTER

MODEL BST-10



PRICE 140.00

This year, as every year, a staggering number of batteries will be replaced due to improper maintenance or inefficient operation of the starting system. This year be equipped to cash in on this ever increasing battery service market.

Be ready to quickly and accurately get the determining facts that prove battery condition . . . equip your shop with the Sun BST-10, unquestionably the finest Battery Starter Tester available.

Now you can show your customers that your recommendations are based on facts — the facts that create additional sales and build customer good will.

Features:

- New 4 inch precision meters
- Ammeter range 0 to 400 amperes
- Three Voltmeter scales; 0 to 16, 0 to 8 and 0 to 4 volts
- One simple test procedure for all standard 6 and 12 volt systems
- Includes convenient portable test stand

A Profit Producing Investment.. Not an Expense

SUN VOLT-AMPERE TESTER

MODEL VAT-20

Complete, accurate service on intricate vehicle electrical systems demands factual testing. "Hit or Miss" charging system service methods usually result in poor operation, customer comebacks and loss of time and money.

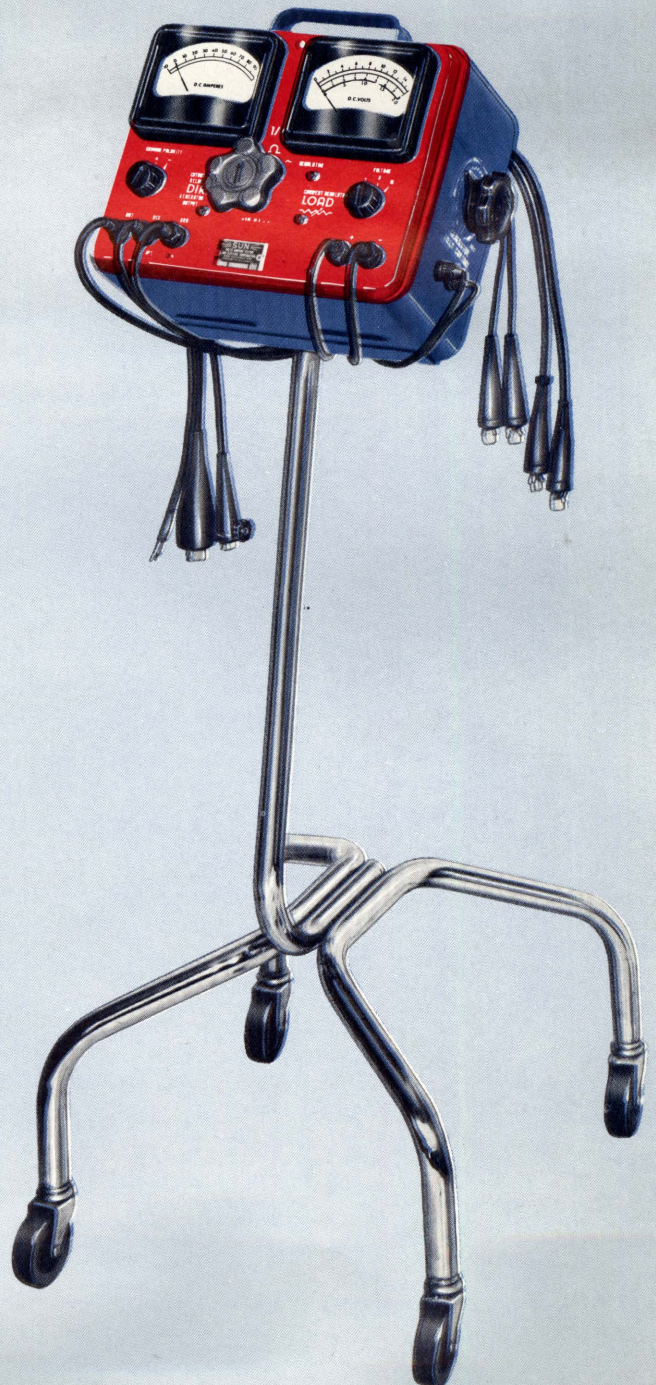
The Sun Volts Ampere Tester eliminates all these service shortcomings — puts you right in the heart of the system and lets you pinpoint the exact trouble spot.

The VAT-20 shows you that your adjustments are made correctly and shows you quickly and concisely.

Speed up tricky charging system service — reap the rewards that come when you sell "TESTED" work — the kind you can guarantee with a Sun VAT-20.

Features:

- New 4 inch precision meters
- Ammeter range—10 to 0 to 100 amperes
- Three Voltmeter scales; 0 to 16, 0 to 8 and 0 to 2 volts
- Unique three wire ammeter circuit, permits one standard hook-up for all types of systems
- Smooth 0 to 46 ohm field control permits accurate testing of double contact regulators and simplifies cut-out relay tests
- Voltage Regulator tests standardized with a 1/4 ohm fixed load
- One simple test procedure for Passenger Car and Light Truck systems
- All tests performed at one fixed engine speed
- Includes convenient portable test stand



PRICE 150.00

Presenting the World's Finest Battery Chargers...



PRICE
180.00

SUN BATTERY CHARGER MODEL BC-80

Efficiency, Dependability, Long Lived Ruggedness . . . these are all the quality features you expect and get in the famous Sun BC-80 Battery Charger.

This handsome unit will fast or slow charge all 6 or 12 volt batteries. Full wave rectification and automatic timing control does the job better and more economically for you.

Extra long power cord permits wide range accessibility around your shop. Plastic weatherproof control shield and heavy duty rubber tired wheels add to the quality and profit producing value of the great Sun BC-80.

Features: High rate of charge up to 1 hour simply by setting one control • Up to 75 ampere output for 6 volt fast charging • Up to 50 ampere output for 12 volt fast charging • Automatic Protection against overload • Automatic switch-back to slow charge following pre-set period of charge at high rate • Efficient booster for starting vehicles. • Eighteen foot, flexible AC power cord.

Model BC-80 115V 60 Cycle • Model BC-81 230V 50/60 Cycle
Model BC-82 115V 50/60 Cycle

PRICES AVAILABLE UPON REQUEST



PRICE
120.00

SUN BATTERY CHARGER MODEL BC-70

Ruggedness and efficiency are the characteristics of this portable, compact, high powered charger. May be used indoors or out; anywhere an extension cord can reach. Instrumentation and controls fully protected from the weather by a hinged transparent shield.

Features: Efficient, full wave type, selenium rectifier; forced air cooling; heavy duty transformer; automatic reset protection against overloads and reversed polarity connections; completely portable, weighs less than 35 pounds; 30 ampere capacity at either 6 or 12 volts; adjustable charge rate, low high or fast; 10 foot battery leads and 10 foot A.C. power leads.

Model BC-70 115 volts 60 cycle A. C. Model BC-70-1 115 volt
50 cycle A. C. Model BC-70-2 230 volt 50/60 cycle A. C.

PRICES AVAILABLE UPON REQUEST



PRICE
60.00

SUN BATTERY CHARGER MODEL BC-43

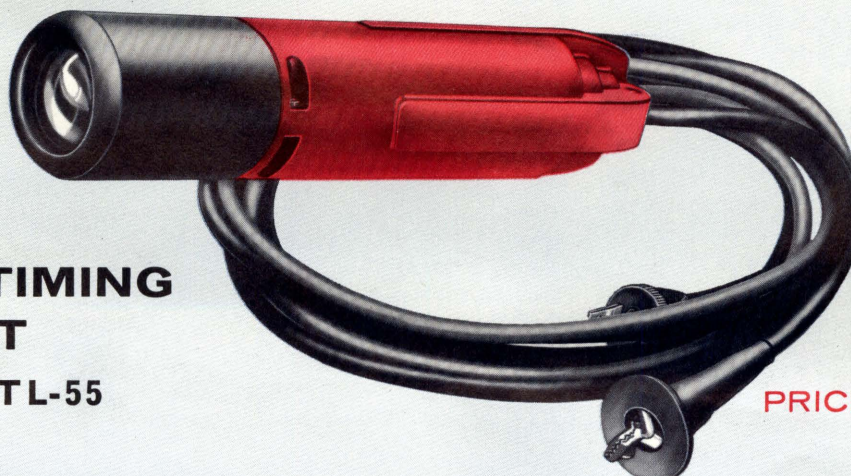
Compact dependability make this Sun BC-43 a real profit powered addition to shops of all sizes. Portability permits use anywhere. Will safely and economically deliver up to 15 amperes at either 6 or 12 volt settings.

Features: Automatic safety reset over-load circuit breaker • Large ammeter, accurate to within 2% of full scale deflection • Dual range charging at either 6 or 12 volts • Economic operation • Convenient compactness, 9"x9"x7" • Unique case design insures positive ventilation • Seven foot battery leads • Ten foot power cord.

Model BC-43 115V 50/60 Cycle • Model BC-41 230V 50/60 Cycle
PRICES AVAILABLE UPON REQUEST

Presenting the World's Foremost Timing Lights...

Sun has built and sold over 300,000 timing lights. Check these quality features and you'll see why "Sun" Timing lights are unmatched for long lived accuracy and dependability.



ROCKET TIMING LIGHT MODEL RTL-55

PRICE 32.00

Completely AC operated, the new Sun RTL-55 is unquestionably the finest, handiest, most dependable timing light available. The new Sun Rocket Timing Light is loaded with economical, time saving features. Unique construction allows you to always have your timing light plugged in ready for immediate handy use . . . actual current flow is triggered when light is connected to spark plug.

As reliable as the electric power in your shop. Just plug it in and it is ready instantly to "freeze" the timing mark with an intense blue-white beam. Magnifying lens protected by a pliable neoprene guard. Sturdy, shatter proof "Fiberite" case eliminates all possibilities of annoying and dangerous electric shock.

This attractive red and blue timing light is equipped with a 6 foot trigger lead, and 10 foot power cord.

RTL-55 115V 50/60 Cycle AC • RTL-55-1 230V 50/60 Cycle AC
Includes pick up adapter #5961. PRICES AVAILABLE UPON REQUEST

POWER TIMING LIGHT MODEL PTL-45

The Sun PTL-45 is long recognized as the most reliable DC powered ignition timing light available. Performance tests proved that this power light delivered over 14 million consecutive flashes without a sign of failure or breakdown. Automatic voltage selection permits light to be operated from either 6 or 12 volts, and its blue-white beam clearly illuminates the timing mark outdoors as well as indoors.

Durable shock proof case of bright red "Fiberite" is virtually indestructible. Recessed magnifying lens is protected by a pliable, grease resistant guard.

Standard lead length 5 feet. If 10 foot leads are desired, order Model PTL-45-1.

PRICES AVAILABLE UPON REQUEST

Includes pick up adapter #5961.



PRICE 32.00

UNIVERSAL COMPRESSION TESTER

MODEL UCT-48

Makes fast, accurate compression tests on all popular engines. Particularly suited for testing those engines having spark plug openings that are ordinarily hard to reach.

Just install adapter in spark plug hole and connect control leads to battery and starter. Move thumb switch to "crank" position and read compression. Move thumb switch to "vent" position and you're ready to test the next cylinder.

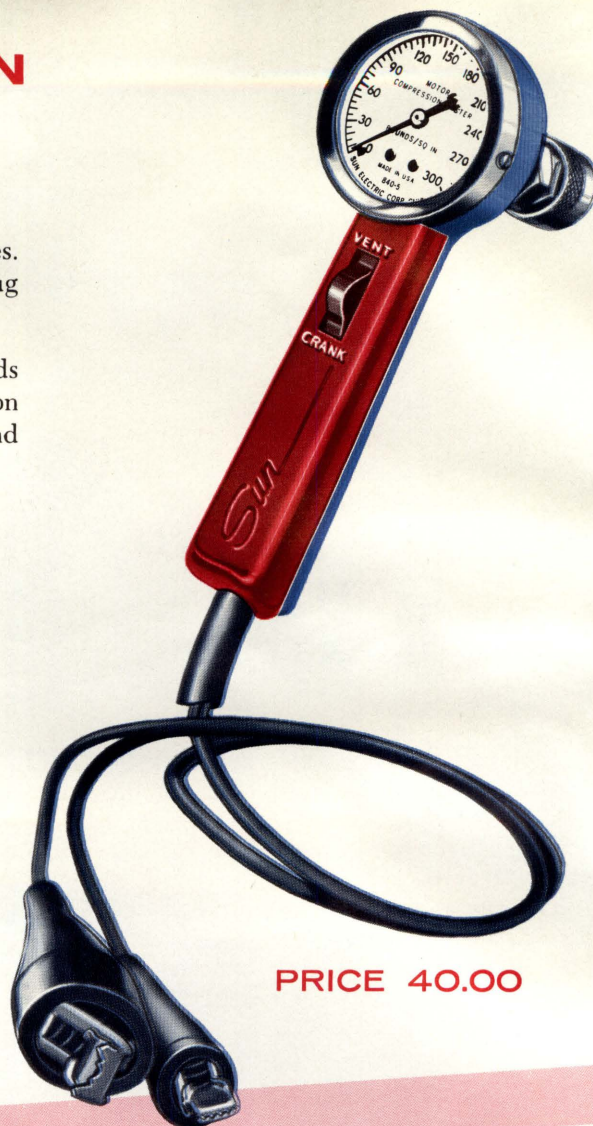
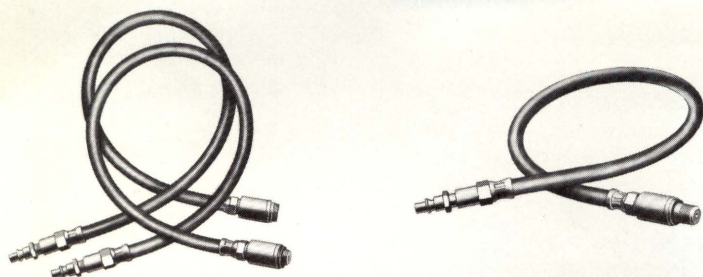
Features: 2½" gauge, accurate to 2% of full scale • Scale range 0-300 p.s.i. in 5 lb. increments • Convenient thumb operated control — push down to "crank", push up to "vent" • Quick disconnect fitting provides positive leak-proof connection between adapter and tester.

Includes:

Standard 14MM Adapter and hose #5652-7

Standard 18MM Adapter and hose #5653-7

Special Long Reach 14MM Adapter and hose #5995



PRICE 40.00



PRICE
80.00

ARMATURE TESTER

MODEL AT-75

Take the "GUESSWORK" out of Armature Testing . . .

Test all automotive type generator and starting motor armatures for grounds, shorts and continuity. This growler type tester features a coil output comparison meter with adjustable sensitivity for extremely accurate tests of individual armature windings and connections. Spring loaded contactor arm assures uniform contact pressure at all times. Completely safe continuity test circuit with neon indicator light and 24" test leads; also tests for grounds and continuity of field coils, relays, regulator circuits and other electrical components. Enclosed in an attractive steel case measuring 12"x9"x6", this quality tester will make a valuable addition to any service shop. Equipped with 6½ foot power cord.

AT-75 115v, 50/60 cycle AC AT-75-1 230 v, 50/60 cycle AC

PRICES AVAILABLE UPON REQUEST

MANOMETER MODEL M-640



PRICE 30.00

This fine instrument provides facilities for making extremely accurate vacuum measurements in the range required for testing the operation of Loadomatic type distributors. Easy to mount on your present Motor Tester, Distributor Tester or Tune Up Tester. Expanded scale, 0 to 6.1" Hg. in range is graduated to 1/100 inch divisions.

Includes: "T" Fitting #4438-A • Adapter #115-7 • 96" Flexible Hose #669-129 • 6" Flexible Hose (2) #669-115.



PRICE 36.00

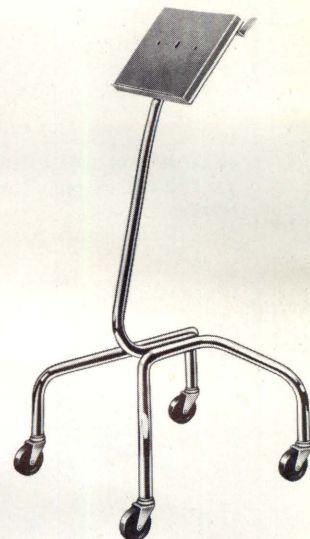
UNIVERSAL DIESEL ADAPTER KIT MODEL DAK

For getting the true facts concerning the cylinder, piston ring and valve condition of diesel engines this set of universal adapters may be used with any Sun Cylinder Leakage Tester. Adapters included are compatible to practically all motive type diesel engines. All fittings and adapters are conveniently contained in a sturdy, formed steel case.

PORTABLE TEST STAND MODEL PTS-4

Protect your portable test equipment and keep it always handy on a Sun Portable Test Stand. This sturdy chrome-plated stand is designed to make testing 100% easier.

- Supports testers in the ideal position for easy reading of instruments.
- Provides facilities for mounting one large or two small testers.
- Unique "Basket Plate" mounting provides space for stocking specification cards, etc., and permits tester to be removed from stand in seconds.
- Convenient brackets for supporting test leads prevent entanglements.
- Construction design makes it almost impossible to tip over.
- Large smooth rolling casters for easy movement anywhere in the shop.



PRICE 20.00



PRICE 15.00

GENERATOR FIELD CONTROL MODEL GFC

A sturdy, 0 to 46 ohm, taper wound variable resistance unit designed for infinite control of generator field strength. A fine unit for controlling output of low cut-in generators when testing cutout or actuating relays. A requirement for testing both operating stages of double contact type voltage regulators. An ideal companion to any Volt Ampere Tester.

Combustion-Vacuum Panel Unit

MODEL 810-6

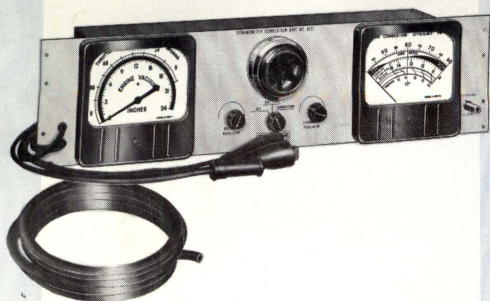
FOR CLAYTON DYNAMOMETERS

The Vacuum gauge in addition to indicating the degree of manifold vacuum also shows the degree of throttle opening which compares present engine condition to known "cruising load" standards.

The Combustion-Efficiency Tester measures and interprets air-fuel mixture by continuously sampling exhaust gas. Propane, Butane as well as gasoline fueled vehicles can be tested. In addition to the percentage of combustion efficiency the air-fuel ratio is also shown. An efficient, two unit exhaust condenser (ECD) designed especially for dynamometer operation is provided. Operates on either 6 or 12 volts.

INCLUDES:

Dual exhaust condenser Model ECD—
Exhaust pickup hose #669-14—



\$244.00

Tach-Dwell Panel Unit

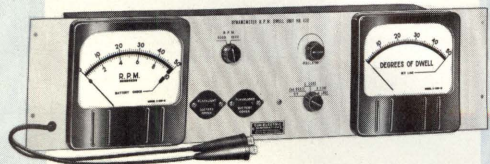
MODEL 820

FOR CLAYTON DYNAMOMETERS

Accurate knowledge of engine speed is essential for setting idle speeds for carburetion and ignition, as well as intermediate speeds for adjustment of distributor timing advance, transmission governors and voltage regulators. The Tachometer has a low scale of 0 to 1,000 r.p.m. and a high scale of 0 to 5,000 r.p.m., for accurate indication of engine speed.

The Dwell meter indicates up to 50° of dwell and four, six and eight lobe distributors can be accommodated.

UNIT 820, 6 & 12 volt, 4, 6 and 8 cylinders. UNIT 820-6, 6, 12 & 24 volt, 4, 6 and 8 cylinders.



\$170.00

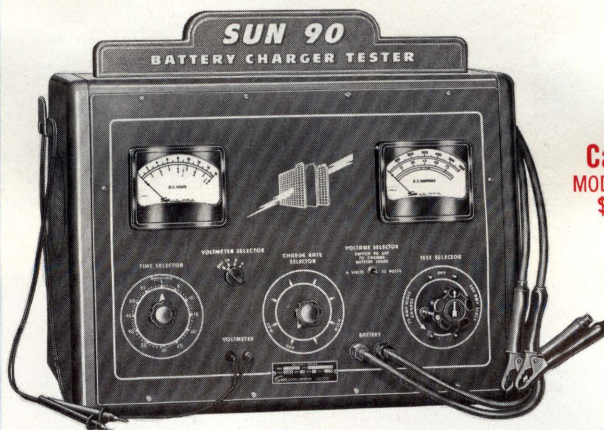
Battery Charger-Tester

MODEL BCT-90

Specifically engineered to meet the requirements of any shop where "top notch" battery service is an important commodity. This fine unit provides complete facilities for testing and for fast or slow charging 6 and 12 volt batteries. Make the famous Sun Three Minute Battery Test to determine the true condition of any battery. In just this short period of time you will know for sure whether a battery is good, faulty or requires only to be charged.

Precision 6", D'Arsonval type meters with easy to read dials. Ammeter scales, 0 to 75 and 0 to 600

amperes; voltmeter scales 0 to 4, 0 to 8, and 0 to 16 volts. Easy to operate controls, automatic fast charge time switch and heavy duty carbon pile type loading device are representative of the many fine features incorporated in this high quality unit. Equipped with five foot test leads and 10 foot power cord. This fine unit measures 28" x 22" x 12". This quality tester may be mounted on wall above your present battery bench, or may be mounted on the attractive battery cabinet illustrated. The Model BCT-90 requires 115v 60 cycle AC power.



\$320.00

Cabinet
MODEL C-28
\$90.00



Volt-Ampere Tester

MODEL VAT-60

For 6 and 12V Charging System Tests

Designed especially for the more experienced automotive electrician. This volt-ampere tester quickly and with a minimum of connections permits testing of the more common passenger car and light truck regulators.

The VAT-60 has 2% accuracy meters. The voltmeter scale ranges are 0-4, 0-8, and 0-16 volts in .1 volt steps. The ammeter scale range is 10-0-75 amperes in 2 ampere steps.



\$60.00

Sun Strobotach

MODEL SX-111

This portable instrument electronically "freezes" rotating or oscillating motion, and accurately measures RPM or frequency. Combining a stroboscope and an indicating tachometer in a simple to operate unit, the Sun Strobotach will freeze motion and accurately indicate speed. Easy-to-read 4" meter is accurate to within 2%. This light weight, portable unit operates from any 6 or 12 volt DC source.



\$160.00

Portable Tune-Up Tester Case MODEL PTUT-C

Fully protected, your tune-up instruments are always ready for instant use when mounted in this sturdy carrying case. One to four Sun tune-up instruments are contained securely with abundant additional space for leads, accessories, small tools, etc.

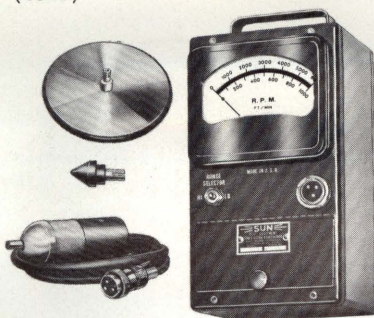
(Testers shown are not included)



\$40.00

Portable Speed Indicator MODEL PSI

Whenever RPM or linear motion must be measured, the Sun Model PSI supplies the answers quickly, conveniently and accurately. Completely self-contained, the Portable Speed Indicator weighs just 8½ pounds. Precision dual scale meter features ranges of 0-1000 and 0-6000 RPM or Ft/Min. Attractive case measures 4" x 5" x 9", and includes #4700-A Ft/Min. adapter (disc) and #4701-A RPM adapter (cone)



\$148.00

Battery-Starter Tester MODEL Y-20

Tests battery capacity and condition in less than 30 seconds—measures starting motor efficiency without disconnecting any of the vehicle wires or cables—picks out bad cables and connections right on the vehicle. Ammeter scale 0 to 600 amperes, and three voltage ranges 0-5, 0-15 and 0-50 volts. The Y-20 includes special adapters for both conventional and military waterproof battery-starter systems.



\$140.00

Fuel Pump Tester MODEL FPT-4

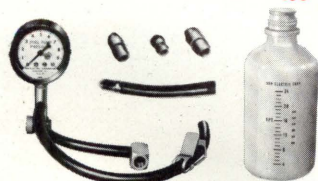
Unsurpassed for conveniently making fuel pump tests in a minimum period of time. Tests both fuel pump pressure and delivery volume. Extreme accuracy assured through use of laboratory type gauge (1% tolerance) and unique method of connecting gauge at carburetor level. Gauge reads from 0 to 10 psi and is equipped with a zero calibrator accessible from outside the instrument.

INCLUDES:

Graduated Container
#671-201—\$1.05

Adapters

	Female	Male	
7/16"x24	#4615-A	& #4616-A	\$1.60
1/2"x20	#4612-A	& #4617	\$1.60
9/16"x20	#4615-1A	& #4616-1A	\$1.60
5/8"x18	#4615-3A	& #4616-2A	\$1.60
Hose Type Connection	#4615-2A	& #115-5	\$1.50



\$30.00

Distributor Tester Adapters



Ford
MODEL 2-195A
\$14.00



International Harvester
4643
\$6.00



Chevrolet
1700-A
\$2.00



Studebaker
3326
\$2.00



Over Drive
Governor Adapter
1422-A
\$1.00



Cadillac
3767
\$2.00



Chuck Wrench
1336
\$1.00

Corvair, IH, Studebaker
Renault
3127-2 \$1.50

Portable Tachometer

Laboratory accuracy in a portable piece of equipment. Fine precision D'Arsonval meter, accurate to within 1%. Mirror arc on the meter dial eliminates parallax error. Sturdy enough for regular shop use.

FOR 6 AND 12 VOLT SYSTEMS 4, 6 AND 8 CYLINDER ENGINES

PT-1	0-1000 in 10 RPM increments
PT-2	0-2000 in 25 RPM increments
PT-3	0-3000 in 50 RPM increments
PT-4	0-4000 in 50 RPM increments
PT-5	0-5000 in 50 RPM increments

4 AND 6 CYLINDER ENGINES

PT-12	{ 0-1000 in 10 RPM increments
	{ 0-5000 in 50 RPM increments

8 CYLINDER ENGINES

PT-13	{ 0-1000 in 10 RPM increments
	{ 0-5000 in 50 RPM increments

FOR 24 VOLT SYSTEMS 4, 6 AND 8 CYLINDER ENGINES

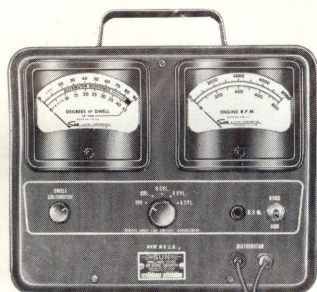
PT-21	0-1000 in 10 RPM increments
PT-22	0-2000 in 25 RPM increments
PT-23	0-3000 in 50 RPM increments
PT-24	0-4000 in 50 RPM increments
PT-25	0-5000 in 50 RPM increments
PT-26	0-6000 in 50 RPM increments



\$90.00

Dwell Tach Tester MODEL DTT-25

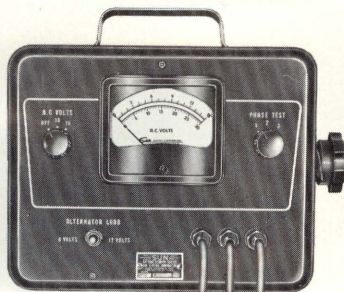
This fine instrument, equipped with two precision meters which operate simultaneously through the use of just one pair of leads, accurately measures engine speed, distributor resistance, distributor point dwell and dwell variation. Completely self-contained, can be used in the shop for tune-up work, or out on the road for checking automatic transmission shift points. For all automotive type vehicles equipped with either 6 or 12 volt electrical systems. Two scale ranges for 4, 6, and 8 cylinder engine readings.



\$130.00

Alternator-Rectifier Tester MODEL ART-30

Test automotive type alternators and rectifiers right on the vehicle with the Model ART-30, designed for accurate testing 6 and 12 volt, three phase systems under load and no-load conditions. This simple to use tester features a 4" dual range AC voltmeter with scales of 0-15 and 0 to 30 volts, and a 0 to 100 ohm variable Load Relay Control. Test leads, being 8 feet in length permit ease of testing on all vehicles.



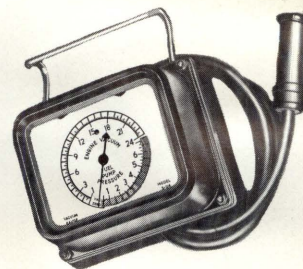
\$130.00

Vacuum-Pressure Gauge MODEL Q-1

Precision Bourdon type instrument for measuring manifold, fuel pump, booster pump vacuum and making accurate carburetor adjustments, also provide facilities for fuel pump pressure readings.

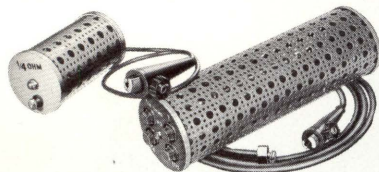
Accurate 4" gauge • Vacuum Scale 0 to 24" • Pressure Scale 0 to 7 psi.

Mounted in cast aluminum case measuring 6" x 5 $\frac{3}{4}$ " x 3 $\frac{3}{4}$ ", includes 40" neoprene hose and adapter set #671-7A1.



\$15.00

Fixed Resistors



Sturdy, fixed value resistors which make possible precise tests and calibration of various types of voltage regulator units when used in conjunction with a volts-ampere tester.

Model RES-1, $\frac{1}{4}$ ohm—10.00
Model RES-24, $\frac{1}{4}$, $\frac{3}{4}$, $1\frac{1}{2}$, 7 ohm—30.00

Volts-Ampere Tester MODEL VAT-24

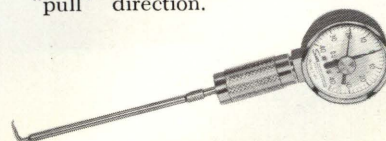
Heavy Duty, the VAT-24 provides facilities for on-the-vehicle testing of 6, 12, and 24 volt charging systems. Features easy-to-read 4" meters. Ammeter range of 10-0-100 amperes; multi-scale voltmeter with ranges of 0-4, 0-8, 0-16, and 0-40 volts. Selective fixed resistance loads of $\frac{1}{4}$, $\frac{3}{4}$, $1\frac{1}{2}$, and 7 ohms contained in tester permit accurate duplication of test conditions recommended by the charging system manufacturers. Built-in Generator Field Control permits all tests of most charging systems to be performed at one fixed engine speed.



\$130.00

Spring Tension Gauge #2-1892

With proper point spring tension so vital to proper ignition system operation, it is a must that this factor is tested on every distributor being serviced. The Sun #2-1892 accurately measures spring tension values up to 40 ounces. Designed for speedy application, it will measure tension in either a "push" or "pull" direction.



\$8.90

Oil Pressure Tester MODEL O-1

An accurate pressure gauge for testing oil pressure of engines using a dash indicating light and for verifying accuracy of dash instruments. Meets requirements for testing automatic transmission operation.

High grade Bourdon tube mechanism. Easy to read, 2 $\frac{1}{2}$ " dial. Pressure readings from 0 to 200 PSI.



\$10.00

Battery Charger MODEL FBC-20

A high performance fast battery charger designed for fast or slow charging of 6, 12 or 24 volt batteries. Portable, the FBC-20 can be used anywhere 115V, 60 cycle A. C. power is available. Its 480 square inches of selenium plates which provide this charger with its exceptionally high operating efficiency are cooled by motor driven fan.

The charger has an initial top charging rate (tapering as the battery approaches charge) of over 75 amperes for both 6 and 12 volt batteries, and over 40 amperes for 24 volt batteries.

Model FBC-22 230V 50/60 Cycle Single Phase AC—\$315.00

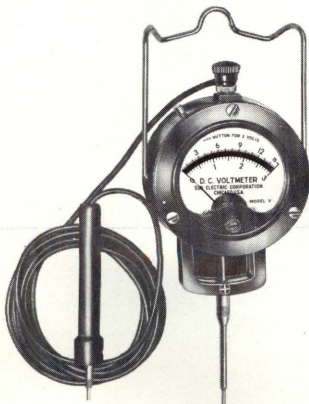


\$290.00

Voltmeter MODEL V

Scale Ranges: 0-3 and 0-15 Volts

The electrician's standby, the portable voltmeter. No shop can afford to be without one. Note that the Sun Model V is specially designed for automotive work, with a six foot test lead and pointed corrosion resistant contact prods.

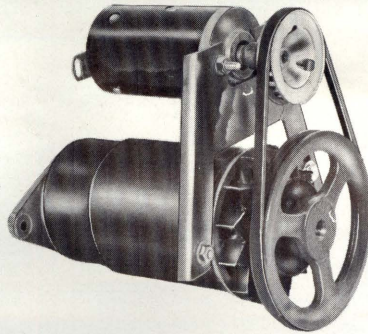


\$20.00

Drive Adapter Kit

For Small Diameter Generators #2-2018

A must for testing small diameter generators on a GRT. This Drive Adapter Kit permits small diameter generators, such as used on out-board engines, to be quickly mounted for operational bench tests. Designed to mount on Sun Master Generators, or any generator of similar design, this kit consists of Adapter Plate #2-2013, Pulley #2-2017, Drive Belt #658-21, and attaching hardware.



\$24.00

Ohmmeter MODEL OM-2

A fine, general utility ohmmeter designed specifically for the specialized needs of automotive service. Highly accurate, this ohmmeter provides three scale ranges of 0-100, 0-1000 and 0-100,000 ohms to completely fill the testing requirements of all automotive electrical systems. Equipped with an easy-to-read 6" meter and 60" test leads, this unit is contained in an attractive formed steel cases with hinged cover, measuring just 10" x 8" x 4". This ohmmeter is a necessity in any shop offering automotive electrical service.



\$80.00

Battery Cell Tester MODEL CT-230

The CT-230 is a compact, simple to use tester for measuring and comparing individual cell voltages of automotive type batteries. This tester fully meets the requirements for making a "Light Load" type of battery test as recommended by a leading battery manufacturer. Precision, D'Arsonval type meter indicates cell voltages with extreme accuracy. Scale range from 1.4 to 2.3 volts with test range expanded to permit readings to 1/100 of a volt. Mounted in an attractive steel case, this tester is equipped with 40" test leads.



\$22.00

Battery-Starter Tester MODEL BST-6

Engineered for Heavy Duty testing of 6-12-24 & 32 volt starting systems. Tests batteries in or out of the vehicle in less than 30 seconds. Tests starting motors, cables and switches without requiring vehicle circuit to be disconnected.

FEATURES:

- Ammeter range 0 to 600 amperes
- Four Voltmeter scales; 0 to 40, 0 to 16, 0 to 8 and 0 to 4 volts
- Simple, fool-proof operation
- Eight foot ammeter leads, equipped with low resistance "Charger type" clips
- Eight foot, flexible voltmeter leads
- All leads readily detachable, for easy shop replacement.



\$130.00

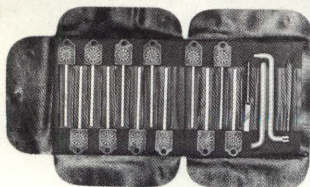
Regulator Service Kit

#5963

Complete Service Kit for all popular types of Voltage Regulators and Relays. Flat air gap gauges, only 1/8" wide, have rounded edges to eliminate the possibility of nicks and burrs. High quality, swiss cut and riffler files for reconditioning contact points. Two universal type bending tools for spring tension adjustments. All components contained in durable, plastic case.

Includes:

#4 Riffler File	#671-111
#6 Swiss File	#671-112
Bending Tool	#3142-1
Bending Tool	#3142-2
.010" Gauge	#2965
.015" Gauge	#2965-1
.020" Gauge	#2965-2
.032" Gauge	#2965-3
.035" Gauge	#2965-4
.040" Gauge	#2965-5
.048" Gauge	#2965-6
.050" Gauge	#2965-7
.060" Gauge	#2965-8
.070" Gauge	#2965-9
.075" Gauge	#2965-10
.084" Gauge	#2965-11
.067" Gauge	#2965-12



\$10.00

High Tension Pliers

MODEL 2-1028

Just the thing for connecting or disconnecting spark plug wires with the engine running. Sturdily constructed, completely shock proof.



\$3.00

Spark Plug Connectors

SET #2661-1

Spark plug connectors make it easy to connect timing light and other testers to spark plugs where rubber boots or molded neoprene terminal covers are used.



\$4.00

Exhaust Condenser

MODEL EC

Efficient water condensing is accomplished by the use of coiled copper tubing. This unit rests on the floor where cool air hastens the cooling of the exhaust sample, quickly condensing and trapping the moisture. Self draining is accomplished with two vertical drain tubes, fitted with removable clean-out plugs, to provide positive water separation. Complete with 40-inch flexible, stainless steel gas pickup hose.



\$30.00

Auxiliary Exhaust Condenser

MODEL EC-1

For Dynamometer use and for extended periods of testing it is recommended that a Model EC-1 be used in addition to the H-15 or EC. This unit is similar to and has the same features as the Model EC. Instead of a flexible metal gas pickup hose the EC-1 is equipped with a 27" length of neoprene hose permitting it to be connected between the standard gas pickup and the combustion testing instrument.

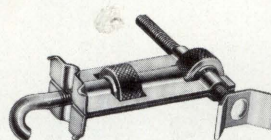


\$30.00

Engine Speed Control

MODEL #4354

A great time saver in tune-ups. Control the engine r.p.m. from under the hood without disturbing the idle speed screw.

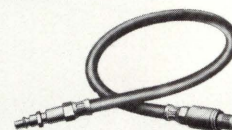


\$4.00

Compression Tester Adapter

#5995A

Special long reach 14mm adapter required for testing engines such as Chevrolet 348 cu. in. Fits all models Sun Universal Compression Tester.



\$7.00

Generator Field Ammeter

MODEL GFA-232

For quick, accurate tests of generator field coils the GFA-232 is unsurpassed. Precision 4" meter with scale range of 5-0-5 amperes. Scale is graduated in 1/10 ampere increments for easy reading.



\$30.00

Chrysler Adapter

#2484-A

Designed for making test connections to spark plugs quick and convenient on engines where spark plugs are located in wells in the cylinder head. Snaps easily into place between spark plug and wire.



\$1.00

Dual Exhaust Condenser

MODEL ECD

For Dynamometer use, this set of exhaust condensers is highly recommended. The set consists of one Model EC, one Model EC-1 and a 27" length of neoprene hose.



\$60.00

Regulator Temperature Gauge

MODEL RTG-1

Regulator manufacturers recommend that regulator settings be compensated according to ambient (surrounding) temperatures. The Sun Regulator-Temperature Gauge is simple and fool proof to use; clamps directly onto the regulator. The RTG-1 measures temperature in Fahrenheit from 20 to 160 degrees.



\$8.00

Solenoid Starter Switch

#1438-2

This switch provides a convenient means to operate the cranking motor from the engine compartment of the vehicle. Saves hundreds of needless steps each day.



\$5.00

Top Dead Center Indicator Kit

#120-129

A handy accessory to your Sun Cylinder Leakage Tester. Helps you to quickly locate piston at top dead center in cylinder. Graduated for 6 and 8 cylinder engines.



\$7.00

Pick-Up Transformer Adapter

#5961



\$1.50

Cylinder Leakage Tester Adapter

#5997A

Special long reach 14mm adapter, required for testing engines such as Chevrolet 348 cu. in. Fits all models Sun Cylinder Leakage Tester.

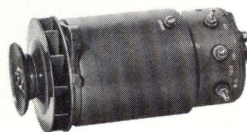


\$7.00

Master Generators

The Master Generator is a time saving accessory to any Sun Generator-Regulator Tester. It provides a power source for testing regulators without the necessity of also removing the vehicles generator. It is so wired that it can be substituted for a generator having either internally or externally grounded field circuit.

Model 4-163-2	12 Volt	\$40.00
Model 4-163-3	6 Volt	\$40.00



Resistance Test Contactor

PART NO. 4344

The Sun Resistance Test Contactor provides a convenient means of making the Secondary Resistance test on vehicles equipped with molded rubber covers over the spark plug connections.

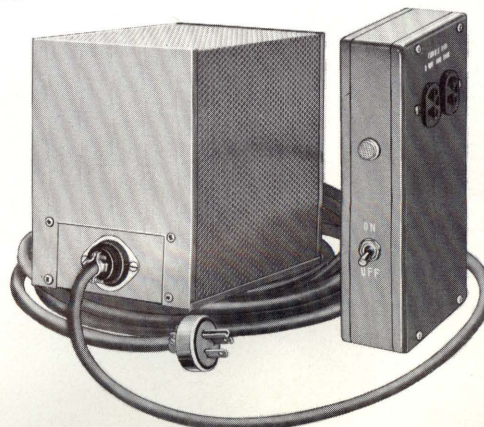


\$1.00

POWER SUPPLY KIT

MODEL PSK

Eliminate the need for messy batteries. Convert your present DC powered Tune-Up Tester to AC, easily and economically with the PSK. Rated at 8 amperes at 12 volts DC, this full wave, heavy duty supply will deliver the full power for your present units and all the additional units available for your Tune-Up Tester. Includes 16 foot power cord and all attaching hardware.



PSK 115V 50/60 Cycle

PSK-1 230V 50/60 Cycle

\$90.00

Distributor Scroll Chart Assembly

NO. 4-1023-1

Keep your Distributor Test Specifications where they are needed—right on your Sun Distributor Tester. New, unique design cuts scroll chart replacement time in seconds. Cartridge type Distributor Specification Scroll Charts for this assembly are available early in each model year on a subscription basis from the Sun Factory. Ask your Sun man to install one for you today. Assembly No. 4-1023-1 fits all Sun Model DT-50 and earlier Master Distributor Testers.

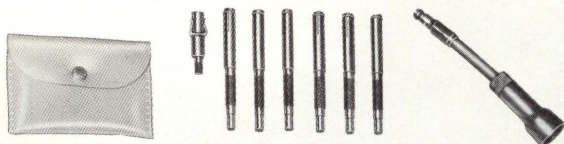


\$20.00

Bosch Adapter Kit MODEL B A K

The BAK provides easy connection to German Bosch Ignition Systems such as used on Volkswagen, Mercedes-Benz, German Ford, etc. The adapters and connectors are used to connect the Sun Scope, Electronic Distributor Tester, Timing Light or Volts-Ignition Tester to spark plug wire. The kit consists of:

Pick-Up Transformer Adapter—No. 5961—**1.75**
Spark Plug Connectors—No. 36761A—.75 each



\$6.00

Primary Pick-Up #2-134-218



\$6.00

An accessory for picking up and transmitting primary electrical signals to the Sun Scope. Pick-up leads are 10' in length.

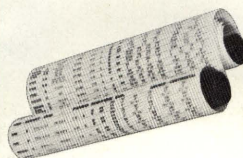
Coil Terminal Test Lead 2-134-15



\$1.00

Distributor Specification Scroll and Rolls

#2-2005-1



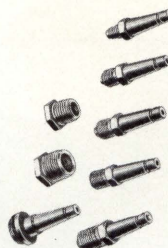
\$3.00

Complete Distributor Test Specifications in scroll form. Specifications scroll provides at least 6 years coverage, including current model year. Scroll is pre-wound on sturdy rolls for cartridge-like installation on scroll assemblies of Sun Distributor Testers Model DT-600 and DT-680, and Sun Scroll Assembly #4-1023-1.

Vacuum Fitting Set MODEL 671-7A1

This set contains vacuum fittings and bushings that include all popularly needed thread sizes.

The set contains:



115-1	Vac. Fitting 1/8" NPT.....	.40
115-2	Vac. Fitting 7/16"x24.....	.40
115-3	Vac. Fitting 3/8"x24.....	.40
115-4	Vac. Fitting 5/16"x24.....	.40
115-5	Vac. Fitting 1/2"x20.....	.50
115-6A	Vac. Fitting 5/8"x24.....	.75
823-1	Bushing 1/4" to 1/8" NPT.....	.20
823-2	Bushing 3/8" to 1/4" NPT.....	.35

\$3.40

Pick-Up Extension Lead #3932



\$1.50

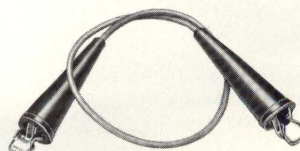
For easy connection to normally inaccessible spark plug wires.

3' High Tension Test Lead 2-133-42



\$2.00

18" Jumper Lead 2-133-15

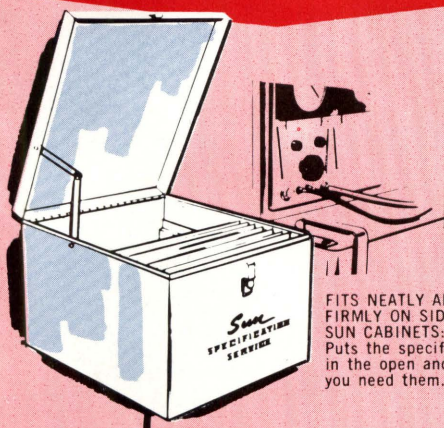


\$1.00

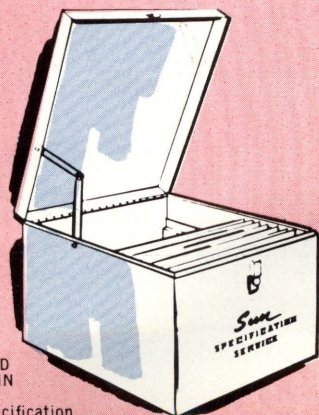
ANNOUNCING . . . SUN'S PASSENGER CAR SPECIFICATION SERVICE

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Now, you can have all your valuable specification cards right at your fingertips—easy to find, easy to replace—and, keep them completely protected to assure years of service to you. The new Sun Specification Cabinet is functional, attractive; and sturdily constructed—a real valuable addition to your service operation.



FITS NEATLY AND
FIRMLY ON SIDE OF
SUN CABINETS:
Puts the specifications out
in the open and right where
you need them.



PORTABLE—
CAN BE USED
ANYWHERE IN
THE SHOP:
The Sun Specification
Cabinet lets you put
your spec cards where
they'll do the most good for your operation—saves
valuable time and helps get the job done quickly



NOW . . . Sun offers 5 years of Passenger Car Tune-Up Specifications printed on handy file cards. You have all the important data you need to properly tune current year models plus four previous years.

Listed below, are just a few of the many specifications and important points of information provided on these cards . . .

Cylinder Numbering • Firing Order • Compression Pressure • Idle Speed • Ignition Timing • Ignition Timing Advance • Coil Specifications • Condenser Capacity • Mechanical Advance • Vacuum Advance • Regulator Settings • Battery Information • Spark Plug Specifications • Complete Distributor Data • Generator Specifications • Cranking Voltage • Charging Circuit Information, etc.

COMPLETE SUN SPECIFICATION SERVICE

MODEL SSS

Model SSS includes one metal specification cabinet and one complete 5-year specification card set including the current calendar year plus 4 previous years.

PRICE 15.00

ALSO AVAILABLE . . .

EUROPEAN CAR SPECIFICATIONS

MANUFACTURER APPROVED CAR SPECIFICATIONS CONSISTS OF 80 SEPARATE CARDS PRINTED IN FOUR LANGUAGES FOR FAST . . . EASY REFERENCE.

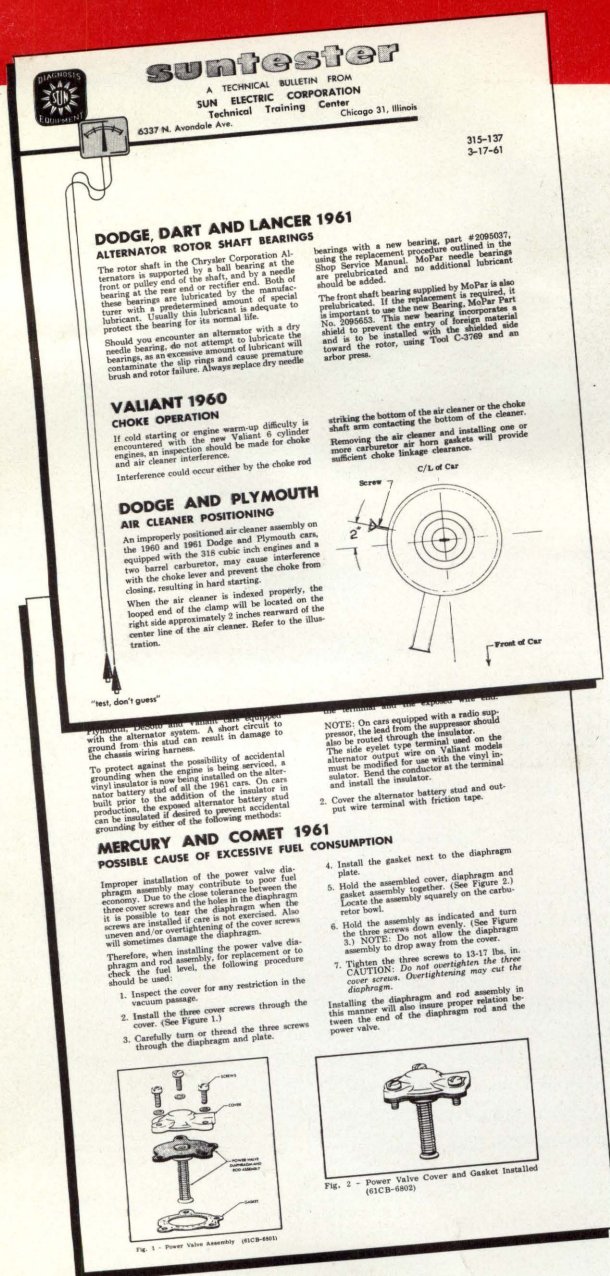
FOREIGN CAR SPECIFICATIONS SET

No. 690-FCS **10⁰⁰** PER SET
F.O.B.

BE WELL INFORMED... GET

Sun's

SUNTESTER BULLETINS



An advance information service of the Sun Electric Corporation Technical Division that will keep you abreast of the latest developments in the fast growing automotive industry.

Suntester Bulletins contain up-to-the-minute information which is of specific interest to automotive tune-up specialists.

Subject matter consists of extracts from factory service bulletins, digests of technical information not widely circulated, discussions of new testing techniques and test specifications for new model cars.

All articles are simply worded and clearly illustrated when necessary.

Suntester Bulletins are published approximately once every month or less depending upon how frequently new information becomes available.

The first issue of the Suntester you receive will be one that is published immediately following the date your subscription order is received at Sun. All remaining issues that you ordered will follow as they are released. Back issues of the Suntester are not available.

Also available is an attractive, silver embossed, red leatherette, three ring binder to hold your Suntester Bulletins. This binder is acid and grease resistant, making it ideal for in-the-shop use.

Suntester subscription forms are available from your local Sun Representative or from the Sun Electric Corporation.

FREE
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OFFER...

As a special bonus, each new subscriber will receive a free copy of the booklet entitled "Ignition Testing With a Scope". The 16 pages of this highly informative booklet are jam packed with all the factual information you should have about the latest, most talked about piece of automotive service equipment. In easily understood language, this booklet describes in detail; Ignition Performance Factors; How to read Oscilloscope Patterns, and how most commonly encountered Ignition Troubles can easily and quickly be found through the use of a Scope.
Don't pass up this opportunity to get your free copy of this valuable booklet.



Here is the **SERVICE SIGN**

**you and your customers
have been looking for!**

FEATURING THE MAGIC SELLING WORDS

*Satisfaction
Guaranteed*

the sign that broadcasts the fact, that you offer:—
EXPERT ENGINE REPAIR SERVICE
and ties you in with the most successful sales
making program ever devised for car dealers,
independent shops and service stations

A sure traffic stopper — this attractive, all metal sign is sure to catch the eye of every motorist passing your place of business. Its main caption, "Expert Engine Service" with "Satisfaction Guaranteed" is the message that every car owner is looking for.

Here is your opportunity to get one or more of these high quality signs so that you can immediately tie into the "pulling power" of Sun's nationally advertised "Satisfaction Guaranteed" program.

Made to Sun's special order by one of America's leading sign manufacturers, this 28" x 40", heavy gauge steel sign is finished on both sides in brilliant Blue, Red, and White enamel over primer, and double protected from the elements by a coat of clear enamel and a special high temperature baking process!

Mounted in a modern, sturdy, steel stand fabricated of $\frac{1}{8}$ " tubing and $\frac{3}{4}$ " bar stock, the sign is permitted to swing noiselessly in nylon bushings completely rust proof, this sign is designed to retain its unusual attractiveness, even after many years of exposure.

Order yours today!
**Be the first in your
area to display this
attractive sign.**

\$1500
ONLY EACH

Sun

**NATIONWIDE SALES, SERVICE AND
TRAINING BLANKETS THE NATION**



● SALES
REGION
● SALES
REPRESENTATIVE

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All Sun Scientific Automotive Test-
ing Equipment is covered by a
liberal one year guarantee. A
copy of this guarantee is printed
in the manual supplied with each
tester.

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INTERNATIONAL OPERATIONS DIVISION

GENERAL OFFICES • HARLEM & AVONDALE, CHICAGO 31, ILLINOIS

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Rua Silva Bueno 999
Sao Paulo

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837 Royal Avenue
New Westminster, B. C.
LA 1-1515

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Suntester Limited
Rippleside Commercial Estate
Ripple Road
Barking, Essex

MEXICO

Sun Electric de Mexico, S.A., de C.V.
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Villa A. Obregon
Mexico 20, D.F.

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